Digital artwork, and digital reproduction and origination facilities are now being offered with the installation of Barco workstations at all the Litho Step group, including isdu links, making it a fully inte-The Servis Pak grated networked repro house. "This has enabled us 10 Product Range...

increase the speed of amendments, ensure added security of documents and link up easier with our customers," Dale Bonser, joint md at Litho Step (origination) Ltd (32-38 Station Road, Heaton Mersey, Stockport, Cheshire SK4 3OT - tel: 061-432 2225, fax: 061-432 4581) tells PN.

"We don't get a payback as such just a better client base, new clients and we cut leadtimes. However, within three months of installing this system we expect throughput to increase by 30 per cent and after 12 months we would expect it to increase by 50 per cent," explains Mr Bonser.

Investment totalling £650,000 in Barco BG-940 and BG-2400 workstations and additional kit at Stockport, follows earlier investment in Barco workstations at the Bristol

Lithe Step offers digital entwork, repre and origination facililies

office and at subsidiary Packaging Interface (PI), the dar snidio, (see PN March 1994). 1f work increases as selectuled then Litho Step is looking to acquire another Bareo BG-2400 workstation later this year. Investment has been made

now because whereas all artwork was previously done conventionally on the bench there has been an increase in the use of dar with the partnership with Packaging Interface. According to Litho Step,

aging Interface. digital Barco (50 Sutton Park "We wanted to spread the

ment service." Birds Eye Walls decided start using dar for its packagir, design, and over the last three to four months has increased its dar undertakings to 50 per cent of all artwork. One drawback of isd Avenue, Reading, Berks RG6 IAZ - tel: 0734 664611, fax:

links is that they need to be supported by Macs with sinable software. Alterations are usually done at Packaging Interface where the size of the file can be compressed and set back to the Stockport or Bristol Litho Step offices.

work out along the group," says Mr Bonser. We can d use the Barco system with or

existing Crosfield equipment

It can drive the inkjet printer

so that someone at Pl canding

the printer in Stockponer

remote drive on-site themal

printers such as at our chee

Birds Eye Walls for which w

operate a full print manage

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SACK LINE SAFETY Centinued from front page

were losing between five and 10 per cent of product," says Mr d'Hondt. A more serious malfunction could incan that the entire contents of sacks were dumped in the waste compactor.

These two pieces of equipment were supplied along with the connecting conveyor and control system through Palamatic's Belgian agent.

Depending on the type of sack, between three and five a minute can be opened and conptied in the MiniSlit. Pala-

20-23 September 1994

lexography and Quality issues.

matic's system involves cutting through three sides of the sack wish a band knife and inverting the pack for complete emptying. The waste compactor is part of the standard design.

"Discharge efficiency Sack sizes between 300 x 300

x 50mm and 600 x 1200 x 250mm can be accommodated hy the machine. The manufacturer puts the discharge efficiency rate at over 99 per cent, and Du Pont confirms this figure. The machine's compact design was another important consideration for A Robo-Lift from Palamat-

267716) system is 60 per cent

faster than conventional work

for certain applications and

100 per cent more accurate and

there is a marked improve-

Although there are still

limitations with apprades and

alterations, the high-end repro-

duction facilities can now cope

more effectively with the digi-

tal artwork produced by Pack-

ment in colonr.

ie is used to unload 25kg sacks from four-sack layers on pallets 12 layers high at Du Pont, The XY axis system is modular, so that users can choose from standard sub-assemblies from the parts list to suit their partieular needs. Pneumatic and vacuum picking heads are available including sack grippers, box grippers and clamps, says the company.

Du Pont opted for ple control, but pe control can also he selected, says Palamatic (Cob-

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our Wood Close, Chesterfield Trading Estate, Chesterfield Derbyshire S41 9RQ - tel 0246 452054, fax: 451379) From the same panel a single operator can control the life from the ground floor, the robot, conveyor and sack opener, says Belgian agent Marc Dubbehnan.

Speed on depalletisation not variable in the Belgia installation, but a photoelec tric cell indicates when the linking accumulator conveyor is full, and the robot goes into standby mode.



TICKETS FOR CONVERTEX 94



Lithe-jeminated corrugeted Certenflute from Corrugated Products

0.65 mm board are unlikely to upgrade to a microflute.

Microflute extends

carton alternatives

The converter already reports widespread customer

interest in the product as an

alternative to cartonboard. "It will create a totally new and

Happy Birthday Packaging News

its anniversary as it has every month since launch, by bringing the latest developments and issues to its readers.

From our January issue, we nave been dedicating one page each month to the products developed in a

two year cycle. This month sees us looking back at 1962 and 1963. We also celebrate the passing of time in a special interview with Robert

Opie and his plans for The Museum of Advertising and Packaging. He believes its development could benefit the whole packaging chain (see page 31).

This month sees the Industry Council for Packaging and the Environment (Incpen) celebrating its 20th Birthday, the achievements of which are outlined on pages 14-19. This special report includes the first news of recent consumer research into attitudes to packaging and how views of envi-

eral public have changed over

the years. As well as these celebratory specials, this issue reports on the news of today, much of which is exclusive.

We have a three page report on the Institute of Packaging's Easy Open seminar, a two page round

up of the latest environmental moves within European Union member states, a three page report from Maeropak, the Dutch packaging show and the latest news of

Emballage, the French show taking place in the Paris Fairgrounds at the end of this year.

Paper and board is the subiect of our main feature which starts on page 38 and, with our regular sections of Meet the Association, People and Company News, we feel proud to have put together an issue that lives up to our remit:

Packaging News - The complete news service for buyers of packaging equipment, materials and services.



JUNE 1994

First solvent free tape designed specifically for foods.

Robart Opia talks Meet Mr Packaging who for 10 years has run the Museum of Advertising & Packaging.

Maet the Association 33
We track the Association of Plantics
Manufacturers in Europe's reactive

FEATURES

incpan's 20 years 14·19 nepen provides the lotest research on consumer ottitudes to packaging ond political and legislative andmarks in environmental affairs

Macropak report 24-26

Easy open report 34-36 Dilemma and debate from the loP's easy open symposium.

Paper and Board 38-46 News and views on corrugates speciality papers; virgin and recycled and strategies for apri up Pro Carton's image.

REGULARS t was Packaging News Then

CLASSIFIED ADS start on page 67 APPOINTMENTS start on page 70

Line brings convenience to soft drinks multipackaging

will enable it to produce a type

soft drinks, says the company.

of earry pack unique in UK

The first UK installation of Dimac's Starfilm HS/D twin lane shrinkwrapper is to be followed by a carry handle applicator to

to install a Twin Pack handle

applicator in September. This

The battle for the as yet unde-

veloped UK mieroflute market

- still dominated by heavier

cartonboards - has stepped up

with the launch of a 0.75 mm

fine flute from Corrugated

While in continental

Europe and North America

microflute board has made

great inroads into markets tra-

disionally dominated by car-

tonboard, UK companies have

so far been largely unwilling to

invest in the material. With the

much better developed collec-

ion and recycling infrastruc-

ture in other European

countries, the supply of raw

material for corrugated has

Corrugated Products - part

of David S Smith Packaging -

says that following recent rises

in the price of kraft board the

ttractions of its "Cartonflute",

with better stiffness and pro-

lection of product, can only

mercase. But according to ear-

tonboard producers, the over-

lap in markets is not that great

since the vast majority of prod-

ucts packed in anything below

been more plentiful.

complement the machine. Mer Mate Soft Drinks Dundee has just taken the first twin lane

The Dimec HS/D Twin lene shrinkwrapper version of the HS/D and plans

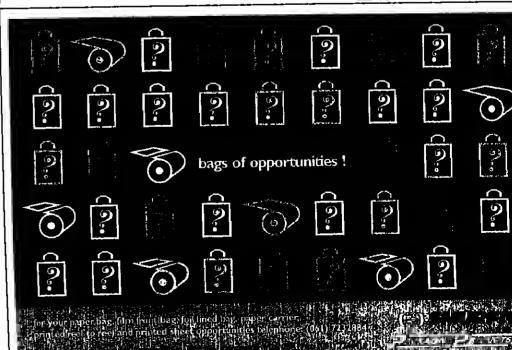
the increased wrapping eapacity to match the output of its filling line for carbonated soft drinks and water. Product is packed in 1.5, 2 and 3 litre

per bottles. Collations will be from two to eight bottles, and the line should run at 140 packs a minute once the han-

dle applicator

is in place. While describing the ontinuous motion twin lane all mechanical version as "an excellent machine", Dr Okhai contrasts the problems encountered with the film feed on Meri Mate's previous single Iane machines.

Continued on back pege



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NEC Birmingham UK For four days in September 1994, The European converting industry TITLE will gather at Birmingham's National Exhibition Centre COMPANY The reason is Converter 94 -- a unique occasion for the converting industry, and the only exhibition of its type to be held in the UK Don't miss this apportunity to see the latest technology from major manufacturers and suppliers of machinery, onversion of paper, board, film and foil **TELEPHONE** This year, there is even more for visitors to Convertex. with seminars and conferences dealing with

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PACKAGING NEWS/MAY 1994

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People find it extremely easy to have completely contradicatory views of packaging, all at the same time. So says Inepen's consumer research, released to Packaging News this month (see pg 18).

Overall, the consumer believes that there is too much packaging and 68 per cent feel that 'packaging is a major environmental problem.' This response is generally evoked due to the volume of rubbish generated and the difficulty of disposing of this rubbish.

Interestingly, on initial consideration the people interviewed were neutral about packaging, but when provoked they only thought of the negative aspects. However it became clear that these negative views could be counter-balanced when challenged with the positive aspects such as convenience, hygiene and safety.

So once again we have a piece of research which tells the packaging chain that they must communicate better with the public. Indeed, many in industry talk about this as a necessary goal. But when?

Plans such as these are often talked about for 'next year' or 'later on' with little, or no resulting action. Some do try (see pg 39), but in isolation one wonders how effective this will be. Surely a group approach with some strong funding would be far more successful?

The 'industry' and I would include the whole packaging chain in this (as the consumer probably believes that Cadbury's make the boxes as well as the chocolates), can surely see the benefits of upping the image of packaging from just waste-in-the-making?

After all, the consumer is better informed, some would argue misinformed, about packaging than was illicited from Inepen's Gallup poll in 1975 (see pg 14). This found that 81 per cent of people agreed that packaging was wasteful and unneccessary. When asked for examples, 30 per cent could not think of any, today they can, and do.

How to influence the public is of course difficult, but did you know there has been a Museum of Advertising and Packaging for the last ten years? Indeed there has been, and one which could not only have helped in the process of public education, but one with a figurehead that is well-known to the national incdia (see pg 31).

The national media has always proved elusive to the industry so it seems odd that it has not capitalised on museum ercator, Robert Opie's impeccable contacts in this area. He could have perhaps got packaging on the tv, in the papers and on the radio for the 'positive' reasons Inpen's research shows must be got across, rather than 'negative ones' that come naturally to the consumer. Backing for Robert Opie could be a first step to making the positive aspects of convenience, hygiene and safety come

naturally to the consumer. Gail Lea, Editor



A Conference and Workshop programme designed to iddress topies at a strategic level will accompany Packaging Focus 94, the forum which will see 300 of the UK's senior packaging buyers on board the P&O ship, Sea Princess from 22-25 September.

Five keynote presentations, will include strategy for the 90s, an insight into trends, packaging for the consumer and who pays for the environment. A paper on the progress of customer pattnerships will he given by Tetty Bloomfield of Lawson Mardon Group. Running alongside will be a

scries of Workshops. Subjects to be tackled include innovation and technical development for food, drink and pharmaceuticals as well as the environ mental costs and competitive advantages of the various packaging materials. Packaging price trends across the scetors will also be covered.

Further information on the conference and Workshop programme is available from Isabel Hutchings at organisers, Richmond Events (London House, 243-253 Lower Mortlake Road, Richmond, Surrey TW9 2LS - tel: 081-332 2422, fax: 081-3320939).

713963, fax: 703540). The mineral water is available in 50el and 1.5 litre sized hottles, designed to appeal to the younger adult market. "Parkside has alsu produced a label which performs exceptionally well on our Knones machines," says Chris Featherstone, operations manager at Hazeley Down Mineral Water Co.

le designed to

appeal to the

younger adult



Striking on-shelf impact



This wraparound plastics label

from Parkside Flexible Packag-

ing has created striking on-

shelf impact for the 464 brand

from Hazeley Down Mineral

Water Company.
A Mobil Clear CLL 40

opp film was chosen for the

transparent lahel to enhance

the gloss and clarity of the

strong 'number' branding, says

Parkside (17 Parkside Lane,

Leeds LS11 5TF - tel: 0532

On June 8, the Council of Ministers will meet to discuss its position on the European Union's (EU) Packaging Directive. Government sources hint to PN that they may formally adopt the Ditective (see PN May 1994).

It is thought the Ministers will accept unchallenged the 19 amendments passed by the European Parliament in May. Earlier fears over increased recycling targets have subsided since MEPs failed to vote in the relevant amendments.

However, if the Council

co-decision procedure (see PN April 1994). The European Commission tells PN it is proposing that the Council of Ministers adopt the amendments rather than face the less palatable conciliation process

The apparent readiness 10 adopt the Directive is tempered by the knowledge that much of it is unworkable. But such is the desperation to thwart MEPs attempts to reintroduce targets that the Directive looks decides to reject just one set to be made law, if opposiamendment it will trigger the tion from certain member

by at least six months.

states to amendment 31 can be

Adoption may hinge on the UK Treasury department's concern over the ambiguous reference to 'economic instruments' in amendment 31. Spain with MEPs. This would delay and Belgium are also stalling the Directive's implementation on this point. They fear this may allow the EU to introduce environmental taxes.

"Rapid adoption would enable Member States to harmonise elements of their national packaging waste management strategies as early in their formulation as possible," says British Plastics Federation issues director Philip Law.

PACKAGING Gail Lea Deputy Editors

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Farketing advantages gained from the vac-Luum packing of rice, maize flour and even cornflakes in Italy could be applied in the UK, say machinery manufacturers, with hygiene and freshness as perceived benefits. With on-costs justified by

health and product integrity considerations, Molino Nicoli is now yacunm packing its maize flour rather than eartoning it as before. In warmer climates especially, insect eggs can liateh out on maize flour unless it is isolated from oxygen and the fat content may become raneid.

But Nicoli is also producing gas flushed packs of cornflakes, as a way of competing with the better established brands. While there are no implications here for product

This vecuum packeging line offers benefits for pert-cooked foods packed this way, says Calini nclude different grain and cercal products.

Vacuum packer adds

On the Calini LCV-30M At least one major brand of machine used by Nicoli, a simple part change will allow a rice in Italy is exploiting vacuum packing as an added value switch from 500g to 1kg packs, feature in tv advertising. By producing squared brickusing a thicker gauge of film, shaped bags in both sizes. Gassays ind Luciana Calini, a flushed packs of cornflakes are smooth pack can be produced produced in 375g sizes. The even with a granular product. 30M runs at 30 packs a minute.

While markets in southern Other products which Europe may demand more could benefit from being

'Over & Out' dispense system: now

adopted in the UK by Pritchitt Foods

Turn waste into profit value to dry products at seminar health safeguards, there are few problems in the UK with dried

Overcome the hurdles of meeting new recovery targets by listening to key players in the packaging chain at a one day conference organised by BICS International in association with Packaging News on June 21 at the Royal Westminster Hotel, London.

With the announcement of the PRG levy expected on June 15, this conference is an opporcunity to get your questions answered by representatives of the Department of Environment and Trade and Industry.

Other speakers include, Michael Armstrong chairman of Incpen and a representative of the PRG. Representing the converters is Tetra Pak UK, and for the retail sector, Safeway Stores plc will be discussing retail waste and source reduction as a husiness henefit.

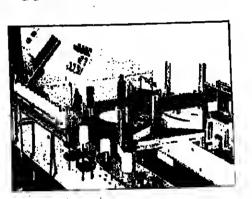
In addition, McDonald's Restaurants, Linpae Plastics International Ltd, the Body Shop International ple, Continental Can Europe and Erra are amongt the host of others who will be speaking.

Morning and afternoon discussion forums will also be held. For more information contact: Gina Booth, BICS International, 1st Floor, Chandos House, 12-14 Berry Street, London ECIV OAQ - tel: 071-490 2076, fax: 071-440 2086.

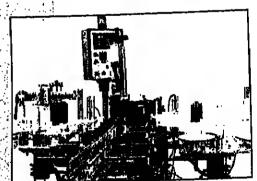
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Product dispensed with absolute ease

In the first UK food application of Mailway Packaging's easy dispense system 'Dispen-SRpak', Pritchitt Foods has come up with what it describes as "the most exciting innovation in the portion pot market for a decade".

'Over & Out' products from Pritchitt were launched earlier this year, and says marketing director Paul Freeston: "It is an excellent addition to our range of high quality portion control products."

Supplier Mailway Packaging Group installed its Dispen-

boxes,

em in!

SRpak Superstarter ffs machine over two years ago (see PN March 92). Packs produced on the system allow easy dispensing of all the product, with just one hand if necessary.

integrity, the manufacturer is

placing emphasis on freshness.

Pritchitt is packing six products on Mailway's machine, each with a shelf life of five months. Mailway upgraded its clean room conditions for Pritchitt's products as part of wider improvements (see page 10).

cavity base, a heat sealed lid

and pressure formed nozzle, has a patented opening which ean be adapted for different

For high capacity sleeve shrinking

guarantee trouble free running. Simplicity of operation

and fnil-safe functions ensure high throughput - up to 2000 products pet hour

the Beck Variant is unbeatable.

The rugged design and high build quality

The dispenser, which comprises a vacuum formed twin Bowling, Bradford BD5 7SG,

product viscosities, says Mailway (12-16 Piteliffe Way, Upper Castle Street, West

W. Yorks - tel: 0274 720019, fax: 370132). Pack dimensions are 57mm

rice simply packed in plastics,

and little advantage to be

gained in terms of shelf life, say

supermarket buyers. But there

could be advantages for part-

cooked produer where there

may be a danger of salmonella

a potential problem with

part-cooked rice. To dare the

narket in the UK for these

According to Colin Hor-

wood of Calini's agent Sker-

man Promac (162 Windmill

Road West, Sunbury on

Thames, Middx. TW16 7HB -

tel: 0932 789646, fax: 761830),

the market for vacuum packag-

ing in the UK is still relatively

small, and remains focused on

products such as ground coffee

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and processed nuts.

products has been limited.

x 38mm and lids can be printed in up to six colours.

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King self-adhesive tabetters have earned a

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C.E.King Ltd, 41 London Street,

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Boots No 7 skineare range of products are now sporting a 'no label' look thanks to Wal-

sall Litho's first use of the glass

clear label stock from Fasson,

The label order is one of the first jobs to be completed on Walsall's recently installed combination rotary letterpress

printing line involved adapting the technology for the new

Very demanding colour Developmatches and close register foil blocking within the screen ment of work was required by the the reeling design, says Walsall (PO Box 26, Midland Road, Walsall techniques WS1 3QL - tel: 0922 721272. fax: 720895). smaller trial sizes of container complete

before the first run of 750,000 for the standard sized bottles, Designed jars and tubes within the range. The relaunched range is now to create a 'no label' look pack, the labels are printed in four primary colours, each underlaid with another colour

and are hot foil stamped in sil-

on sale in all Boots the Chemists retail outlets.

Labels were printed for the

produced by Walsall.

costs cu

Cost differentials hetween inmould labelling and direct printing for plastics containers, which have deterred many potential users, can now be reduced to a negligible amount, say plastics producers and moulders.

With equipment such as label feeders available increasingly outside complete system sales, and therefore at lower costs, capital requirements are reduced, says film producer Hoeehst. In addition, reductions in the gauge of film and tub, which reinforce each other once combined in the mould, can cut materials costs.

In all, Karlheinz Wolf of Hoeehst estimates that the cost differential can be reduced to less than 10 per cent for square plastics containers.

With more competition in the plasties label printing market, increasing capacity in existing printers and more efficient die-cutting for pre-cut labels, materials supplies are also set to improve.

For many converters and specifiers, the advantages of permanence, hygiene and where the process replaces labels - monomaterial packs will be more important than the difference in cost, the company pretlicts.

"There are wide expectations of cost decline in general in the in-mould labelling process," said Mr Wolf, speaking at a seminar organised by the company (Hoechst UK Ltd Films Division, Hocehst House, Salisbury

Road, Hounslow, Mi TW4 6[11 - tel: 081-570 7711 fax: 081-577 1854).

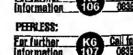
Peerless Plastics sees the gap closing fastest between conventional methods of decoration and reel-fed in-moul labelling, which is the method used in its Rollodec system This complete system, using materials, can be used coneffectively with round continers, says Alan Fealey of Peerless (Mariner, Coton Fam Industrial Estate, Tamwork Staffs B79 7UL - tel: 0827

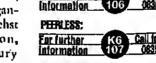


Since direct printing of round containers is fast and relative ly cheap, competition from in-mould labelling has been most difficult in this area Peerless says its system can compete both on round and square containers.

Industry development are also said to be taking place with in-mould labelling for thermoform ing, which risks lagging behind competitive processes in offering this techniqu to its customers. So far, trials have been limited to mainland Europe.

PHERITSS:







On-shelf premotion for Cadbury's Original Drinking Chocolaid

Chunky on-shelf promotion

Premier Beverages has teamed up with packaging manufactur-ers Encase Ltd, the UK corrugated packaging manufacturer, for a striking on-shelf promotion for its Cadbury's Original Drinking Chocolate.

Rob McNeilly, brand manager at Premier Beverages says: "This is one of the best looking promotional packs we have put on the shelf."

Designed by Encase's Impact Design Team (Beaumont Road, Banbury, Oxon OX16 7RE - tel: 0295 250971, fax: 271390), the drinking. chocolate pack is manufactured from B flute corrugated board using special locking devices to hold the products securely in place while giving maximum visual effect.

The promotional packs are designed for aisle-end displays. and feature a pre-printed liner plus uv varnish reflecting the classic Cadbury's image.

The display outer instant ly communicates the Cadbury's brand values while displaying the product and the promotional item to the full." says Mr McNeilly.

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The report formal we prefer is the formal generated by X-Rife's OA-Master softwar . We have anclosed a semple report for your information.

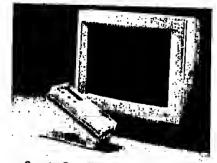
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sales rise

Britain's emergence from

recession ahead of its European

counterparts is reflected in the

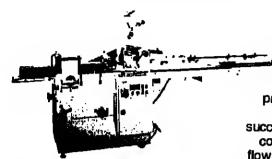
Metal Packaging Manufactur-

ers Association's (MPMA)

review for 1993 which shows

an increase of 6.5 per cent in

Schib Packaging s.r.



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Solvent free tape has | In-fridge high grab and bond

Frozen ready meal and pie Estate, Star Road, Partridge producer, Tiffany Sharwood's Green, Sussex RH13 8RA - tel: is now using a self adhesive packaging tape said to be the first proven solvent free tape designed specifically for foods.

Called Ecotape and available from Tritel Ltd, the polypropylene film earriet has a hot melt, pressure sensitive adhesive with a 'high grab' characteristic and permanent bond for extreme conditions. In order to overcome problems sometimes encountered when sealing cartons made with a high recycled content, Ecotape has a special additive which is said to guarantee secure bonding.

"Tape will not taint products'

"The fact that Ecotape will not taint products it comes into contact with makes it ideal for food packaging," says Barry Coven-try, ind of Tritel (Star Trading

0403 711080, fax: 711410),

Tiffany Sharwood's is using a clear version of the tape to seal all its various sized outer cases which are despatched to supermarkets throughout the country. The consistent adhesive performance of Ecotape is especially important for the range of frozen foods, according to Mr Coventry,

"The tape is effective, keenpriced and environmentally friendly in the bargain," says Nick Skew, buying controller of Tiffany Sharwood's which is part of the RHM Group.

According to Tritel, Ecotape costs are comparable to standard pvc options whether supplied plain or printed. At Tiffany Sharwood's, the 50mm width tape is applied by

automatic case sealing equipment but it can also be handled on hand dispensers.

.. USE MINITERATED

SHEAR GENIUS FROM



The difficulties of putting a wine box in the fridge have been overcome by the redesign of the box so that it can lie on its side.

The box was designed by Swan Fields Packaging for the filler Darlington's. It will be trialled by Tesco. Martyn Coxhill, md of

Swan's, says "Wine box technology is now at a stage where the wine is stored in controlled quality conditions. However, we recognised that the design of the packaging could be developed to meet the needs of the customers."

Current boxes will not stand up in the fridge in a usable position. This box is being tested with the company's suppliers at the moment. Depending on how they are received, the company will push for sales elsewhere.

John Smith, sales and mar-

The closure had to be both

functional in use and economi-

The two part cap is designed to

be etticient end easy to grip





The wine box tep is etleched the bottom, for convenience

Bridge Street, West Bromwid W. Midlands B70 OBT - 1d 021-522 2002, fax: 021-521 2686), says the tap is now attached to the bottom of the box and perforations are male through the reverse flaps so that it can be fitted in.

measuring cap features full instructions for use, ensuring the correct amount of product is dispensed by the consumer. For further K6 Call for date information 126 0838 772



oriented polypropy-Jene (opp) film production line at Mobil Plastics Europe's (MPE) Kerkrade, the Netherlands plant is due to come on stream in the first quarter of next year.

This super-orienter, to be erected in a recently completed production hall, will produce in excess of 13,500 tonnes a year at 8.4m wide and will take MPE's annual European opp capacity to 90,000 tonnes. The otienter will match the existing line at the plant.

According to Bert J Van den Berg, MPE's sales and marketing director Benelux and Scandinavia, the move will make the plant more efficient and present greater scope for material development.



"The first line is filled with nex materials and so a second line will help us develop further specialities." One of the latest new films is a transparent pvoli-coated Bieor 25 MB 866 film laminated to pp cast film produced by converter, 1T Pack for Dutch snack food producer, Klijn bv.

The exceptional barrier against gas transmission and aroma protection conferred by the pvoli coating allows Klijn to nittogen flush the packs to preserve product freshness perfeetly and eliminate oxidisation, says MPE (UK: 1 Towers Place, Eton Street, Richmond, Surrey TW9 IEG - td: 081-332 6261, fax: 081-332 6256). The material also had to perform on a specially equipped Bosch vertical ffs machine.

MPE believes that there is still significant growth in Europe for opp films - at around 5-8 per cent a year especially in new market areas. It is ten years since the



on and erome protection ere conterred by the puch coeting

ompany launched its OPPalyte films which are most widely used for crisps, confeetionery and bisenits. Mr

Van den Berg sees potential for other dry food and powdered products, however. "In fact we would like to

replace any paper/alu sub strate," he told PN.

UK sales while exports dipped by 30 per cent. Overall industry sales remained static at £1,236 million which, claims the MPMA, is a creditable performance in view of the depth of recession affecting the major markets.

The year ended on a sour note, however when high tinplate price increases were imposed by all the major European suppliers. It is hoped that the MPMA initiatives taken will result in a less dogmatic approach from suppliers in the future.

Call on 0839 772288 or circla number (K6-460)

For further KG Call for dela Information 0839 7772 keting director at Swan (Great PP closure acts as both pouring cal in construction. The two part cap has been designed and manufactured by spout and a measuring device Italian company Taplast (UK Sales Office: Ditchling Busness Centre, I West Street, Ditchling, Sussex BN6 8TS-A dual purpose polypropylene closure which acts as both tel: 0273 8-16707, fax: 846582). pouring spout and measuring "Ensures the device has been adopted by right amount Levers for its Sun Micro concentrated dishwasher powiler. is dispensed" Levers required a custom designed closure for this new pack, which is described as As well as incorporating the ergonomically efficient and potir spout, the transparent easy to grip for consumers.



A boost in productivity and a more effective use of labour are two benefits resulting from Lyons Tetley Ltd's installation of a custom built sleeving system.

The fully automatic, twin headed machine has been ioned for banding multiple packs of tea by the Sleevit Division of Turpins Packaging Systems Ltd, and has been installed at Lyons Tetley's Greenford plant. It is being used for promotional sleeving of Lyons banded products as well as those produced for other customers.

"Gating

Special gating equipment, engineered to prevent the possibility of product jamming and build back, collates two, three or four packs prior to application and shrinking of a clear or preprinted pve sleeve.

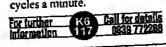
The two banding heads are

a key feature as they can operate in fully automatic mode or be used independently on different promotional applications, says Sleevit (Kennedy Way, Claeton-on-Sea, Essex C015 4AB - tel: 0255 423402, fax: 473312).



"The Sleevit system was chosen for its versatility, its throughput rate and ease of changeover compared to similar systems offered by other suppliers," says Vince Stapleton, industrial engineer for Lyons Tetley Tea Division. "Turpins' willingness to work with us in developing a new system to meet our specific needs was also a very important consideration."

The system operates at 100 cycles a minute.





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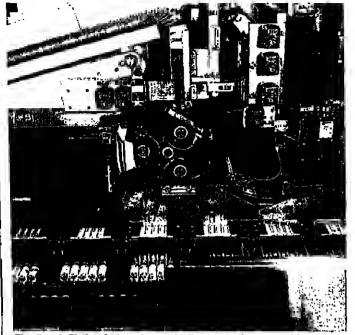
Engelmann end

Buckham House,

Lenten Street,

PACKAGING NEWS/HINE 1994

Vials loaded into compartmental cartons



The Bosch CUK 1080A cartoner. At the top is the carton blank

maceutical industry towards monomaterial packs which maintain transit protection for product, vials are being loaded nto folding compartmental cartons on equipment from Robert Bosch Packaging

Faster end cheaper

Boseli, which launched the system at the Achema show in Frankfurt this month, claims that the cartons provide the same protection for vials or ampoules as blisters or plasties inserts. Packing is made faster, cheaper and simpler, says the company.

Leaflets can be deposited of the earton, supplied by a in a special side compartment German converter, creates in the carton after the primary dead space between the fragile packs - entering the CUK container and the outside of

line infeed conveyor - have one vial from the next. been loaded. The inner frame

Vials, more fragile scored ampoules or a combination of the two can be safely packed and transported using this system. A single station operation such as this saves on space,

tal strategies for material types

and grades, energy and materials costs for generating primary

and transit packs through to

from Industrial Software Ltd

can meet particular materials costs, design, quality, and usage needs. Where applicable, parameters can include legal require-

ments (if quantified for a given

pack or material) down to such fine detail as label positioning.

company. Palletpack Version 4 Technology is a framework into

which users can build various

options, combined in different

where legislation poses logisti-

cal problems in packaging and

loading specifications. There is a

need for more rigorous specify-

ing of the types of materials and

where they can be used," says Tony Orphanou of Industrial

Software (40 Braydon Road,

London N16 6QB - tel: 081-

A version of the software is

802 5618, fax: 081-802 5657).

Changes

made to

There are areas in Europe

ways to meet particular needs.

A major advantage of the system is its flexibility, says the

Parameters in the software

pallet patterns.

Designing for

the environment

Software for pack design can already helping one Belgia

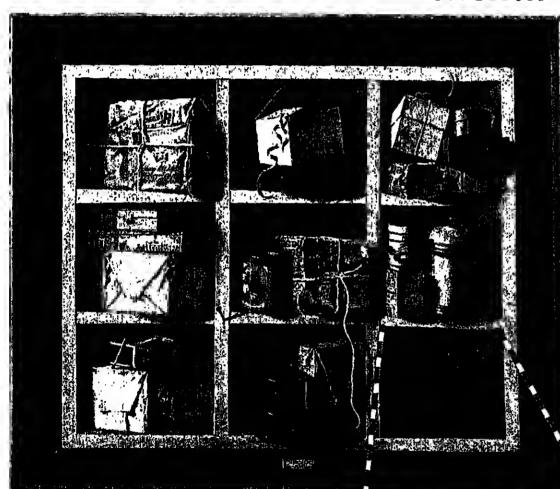


time and costs, says Bost (Invincible Road, Farabor ough, Hants GUI47QU. 0252 517821, fax: 5184781

Moulded or tubular glas containers with a diameter of to 30mm can be packed on the system. Speeds ean reach & ampoules a minuse in single row format and 1200 in doub rows, filling 120 cartons.

Integration of the carone possible with the Both! KLD 1041 erack detector ad! the ERS 2010 ampoule labels ... into a single line with appropriate end of line equipment

Products in ASHWOOD Containers are seldom left on the shelf...



French artist -

created "La Mise en boites" to illustrate packaging from the past. He left the righthand bottom cubby hole emptyl Why?...because modern packaging had not yet been invented.

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Changes are to be made to the packaging design of J Sainsbury ple, Classic Cola following concern from The Coca Cola Company that customers are confused by the similarities n the packaging. Sainsbury's tells PN: "We

do not accept that any customer confusion has arisen because of the design of Sainsbury's Classic Cola," However, the company

has agreed to change the typeucts (see PN May 1994). face on the Classic Cola label

islation there. But Industrial Software stresses that thisit, logistical software, and can not carry descriptive legal data. Though users to date have been in the confectionery, margarines and edible oils sectors,

customer to cope with the le-

there is no particular targeting of the food industry and the package can clearly be of use to any fineg sector.

"Three-year

Industrial software embarked; three-year development project for the software once it became clear that environmental legislation in different countries was going to make the specification and use of materials

much more demanding.
In compliance with BS 5750, date stamped packaging and loading specifications, bills of materials and costings are stored in the database. for further KG Call for details

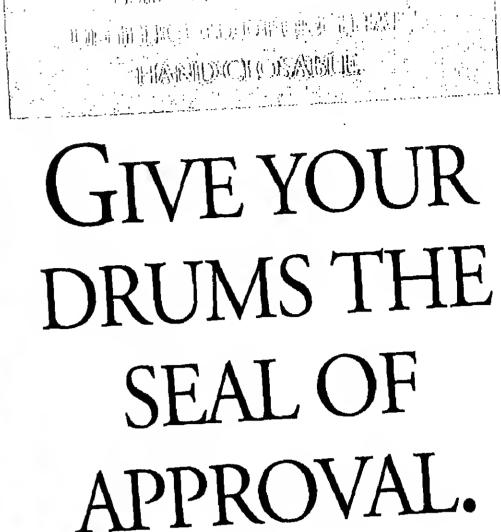
and has removed a line from under the word Classic. The decision to make these minor amendments was taken in order to maintain the goodwill that exists between Sains-Classic Cola bury's and The Coca Cols

> Prior to the launch of Sainsbury's cola, the previous Sainsbury's brand had 20 per cent of cola sales at the store Classic Cola has taken a 60 per cent share of sales, the company says, at the expense of the leading brands.

Louis de Jose Po

Company, says a Sainsbury's

This latest dispute, highlights the growing tension between brand manufacturers and supermarkets over sales lost through lookalike prod-



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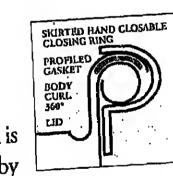
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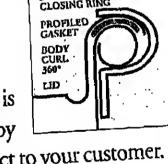
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Packaging Group, is planning to move into primary wrapping and food packaging and aims to create a Clean Room environment with the possibility for chilled food contract packing in its recently opened factory in Leeds.

With the installation of air conditioning the company aims to bring up to standard the conditions needed for Clean Room to be able to wrap food. At present, most of the business is secondary wrapping. The first order primary wrapping will be for biscuits.

"At the moment we are negotiating to see if we can meet the requirements of our customers, but in six mnuths we would expect to be packaging chilled foods," says Ian Pruchniewicz and of Mailway Packaging Grnup.

"We have identified a niche market"

"There is a shortage of chilled environments for contract packaging in the UK. We have identified a niche market here. especially for promotions. People have fully automated large facilities which do not give them the flexibility to turn things around quickly for



DiapenSRpak system housed in clean room conditions at Meliwey

handed opening and dispensing

The machine is capable of

handling 60-90 million packs a

year. Printed and raw material

is sourced, but no tooling costs

are involved as standard 10 and

Markets for the dispenSR-

pack include one unit doses of

shampoo for promotions or

hotels as a complimentary

pack. On a 1 million run the

unit price per pack is about 3

pence. Minimum runs for

clients are 100,000 units, with

output for 20-30 million units

Mills, Springfield Street, West

Mailway is at Springfield

expected for 1994.

15 ml containers are used.

portion pack.

short run promotions," explains Mr Pruchniewicz.

Mailway is seeking advice on due diligence so that it is in enmpliance with the strict food regulations and hopes to obtain BS5750 within the next few weeks sn that it can become the UK's first chilled food contract packer.

As far as chilled contract packaging is concerned, no storage facilities will be made available since the refrigerated products will go in and out as quickly as possible.

Investment at the new Leeds site includes the acquisition of overwrappers, shrinkwrapping and board sleeve muti-packing machinery including £250,000 on a machine for dispenSRpak - a system for producing a single

powder filler

Albro Delta, an in-line powder filling machine that brings the product handling and cleandown advantages of gravity or vacuum feed operation into

medium speed machinery is being introduced by GEI Filling Capping & Labelling Ltd. This latest filler

operates at speeds of up to 80 containers a minute and is aimed at the food, pharmaceutical and personal care markets where until now medium speed filler for powders, granules or agglomerates have relied on auger dosing systems, says GEI.

Instead, the Delta filler employs a choice of either the vacuum level filling heads used on advanced highspeed rotary powder fillers or a gravity-fed weigh-fill head in which the product flow is controlled Vacuum essisted filling heed used on the Albro Dalta simply by air pres-

Bowling, Bradford, W Yorks tel: 0274 720019, fax: 370132. sure. The choice depends on product flow characteristics, says GEI (Henwood Estate,

Hythe Road, Ashford, Kent TN24 8DS - tel: 0233 629161,

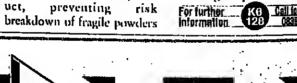
and presenting a smooth for path for easy and secure deandown. Accuracy is typicals In both types of head there to 0.1 per cent giveaway.

Delta is available as a two e four head machine. Infeed and outleed conveyors are set pard lel to the filling heads allowing two or tour containers to be more sideways into posicos minimising the delay, says Glyn Humphris GEI sales and marke. ing director.

> We see a need in the market for a medium speed machine which can be quickly changed over from on size container to the next," Mr Humphris tells Packaging News. Container sizes

range from 40-110mm diameter with a fill weight of up to 0.5kg for products such as coffee or tale, to 103-200mm for fills up to 2.5kg for products such as powdered milk or







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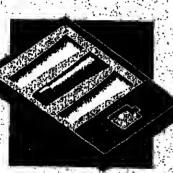
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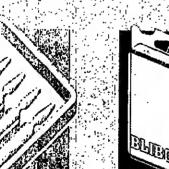
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Packaging Inserts



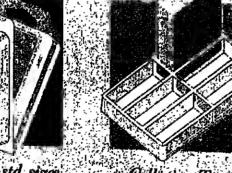
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ers in contact with the prod-

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Test tracks down winning designs o packaging. "I'd love to be

map" can also be provided.

Mr Dunning has plenty of

strong feelings when it comes

tion of a winning pack design our of a number of different oprions is claimed for a series of connumer tests refined by Scantest. Scantest - a division of Seantel Ltd - uses a technique involving a number of tests with target buyers, based on the sequential decision model which homes in on first - and failing that second - choices. Some 60 - 70 per cent of those questioned will opt for

The Cempbelle soup ranga, with the final design raffined following Scentest research.

and execution

Companies can end up with a computer generated hierarchy of the pack designs, with a percentage value for the sales potential of each. A display of a "perceptual brand

Barcodes reviewed

The new Reader

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rapid response

Cost and time savings across industry will result from the introduction of barcode standards, say members of the CEN European standards committee, currently out for public review.

around 30 per cent of a range

of colours, for example, says

md Bill Dunning. Research can

then progressively focus on the

sector where the majority of

The success of colour and

overall design can be predicted

wirh an accuracy unmatched

by any other research system,

says Mr Dunning. He guaran-

tees to pinpoint the winning

pack in terms of positioning

preferences fall.

Several standards are likely to be made mandatory next year for public procurement usage throughout the EU, although commercial pressure will be the driving force behind implementation, says the BSI.

A series of symbologyrelated standards are among those currently open for public review and are expected to be ready for adoption "in a few

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enquiry
"HOT
LINE".
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call us 24

hrs a day leaving

your name, address and the ref.

number and

leave the rest to us. CEN working groups, David Mendus and of ICS Identcode Systems, has called for greater input from UK industry in determining the final shape of the standards.

The BSI is particularly keen to encourage companies to take part in consultation rather than, say, setting up their own systems. Any points to be raised on

these issues or requests for further details, should be addressed to the BSI (2 Park Street, London W1A 2BS - tel: 071-629 9000, fax: 071-629



cators at advertising level and the packaging communicators at a single meeting," he says, explaining that these two aspects of marketing are rately coordinated to the best effect.

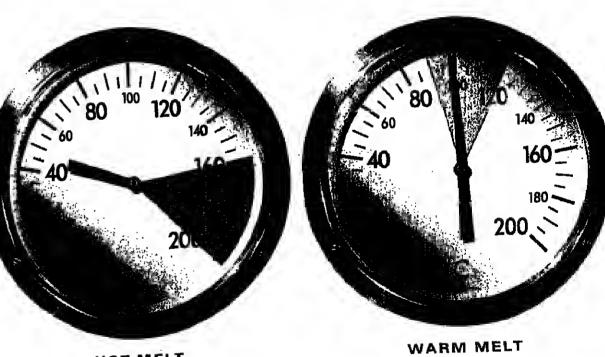
As an example of his work for brand leaders, Mr Dunning shows a range of tinned soups for Campbells researched by Scantesi (27 Dale Street, Manchester M1 1EY - tel: 061-236 1952, fax: 061-236 0768). Different pack executions were compared for general appeal and colour choice.



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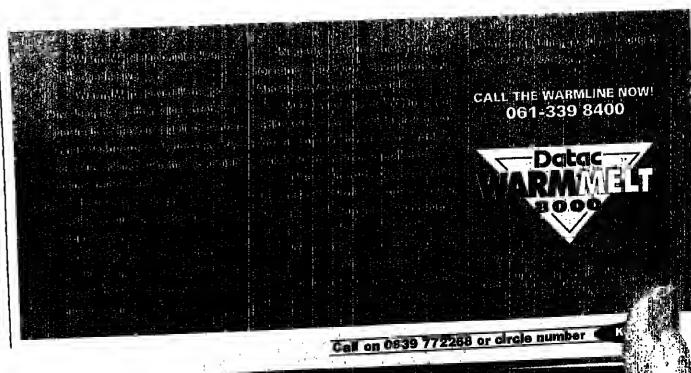
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When the going got too hot, Datac got stuck in...



HOT MELT

...and invented Warm Melt adhesive.



PACKAGING NEWGHINE 1994

Glass reigns over luxury goods sector

Glass still leads the field as the main component in luxury packaging, holding 38 per cent of the market, with France remaining the most important contributor to the sector across all material and product types.

While stressing that luxury goods account for some 10 per cent of the total packaging market in France, the director of the French Packaging Institute (IFEC) Jean-Paul Pothet showed that France has 47 per cent of the market worldwide, followed by Italy with 14 per cent.

In terms of materials, glass has a much higher profile in the packing of luxury goods compared with its share of 18 per cent of all packaging. Paper and board has 26 per cent of the

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CONVERTING EQUIPMENT

market. Predictably, plastics are used proportionally less in the luxury sector than others.

Speaking at a conference organised by Emballage '94, Mr Pothet said that perfume and cosmetics account for FF 40 thousand million (£4.5 thousand million), followed by ehampagne and cognac.

Cautious predictions

With upwards of 75 per cent of stand space booked for Emballage '94, according to the organiser, there are so far 1400 registered exhibitors. The organisers are being cautions in their predictions about visitor tornout, which they estimate will be between 120,000 and 125,000. It will be difficult for the exhibition to better its 1990

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performance, for both visitor and exhibitor numbers.

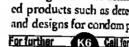
Breakdown by exhibitor activity is expected to be show will run from 14 to 19

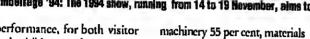
November. More information and packs 35 per cent and other can be obtained from Promosasectors 10 per cent. The 1994 lons UK Ltd (The Colonnades, 82 Bishops Bridge Road, Lon3660, fax: 071-792 3525) This year's focus on the

don W2 6BB - tel: 071-21

future, Pari Emballage or the packaging challenge, attraced 211 projects from young designers worldwide Current ly, the 40 finalists' scale models are being adjudicated to end to with ten prize winners.

Ideas have included sache for soluble medicines which double as a small drinking cup 'recharge' units for concentraed products such as detergent and designs for condom packs.





Art Deco for cognac

Latest in Courvoisier's premium Collection Erté Cognac range reproduces an Art Deco graphic using glass-embedded screen printing onto a specially designed carafe.

According to Courvoisier. only one company in Europe has the experience in screen printing to provide the necessary level of quality. Decaleor could match the original Erté artwork to silkscreen print in up to 18 colours,

sometimes using Carafa with Art Daco graphic

Apart from the four kiln stages required, a manual 24carat gold gilding process was used by the company. Each year only 12,000

rare pigments.

design. From the begioning Courvoisier worked with specialist glass manufacturer Saint-Gohain Desjonquères (19 Dunraven Street, Park Lane, London, WIY 4JR - tel: 071-409 0017, fax:

> 071-493 8984) The ong nal designs are all the work of Erté, which also designed the carafe shape Only mioo changes had to be made to this shape fo production

The bottles sell for FF 3000 in France, but a large proportion of the carafes go fo

export, including around half to the USA.

For further K6 Information 102 carafes are produced in each



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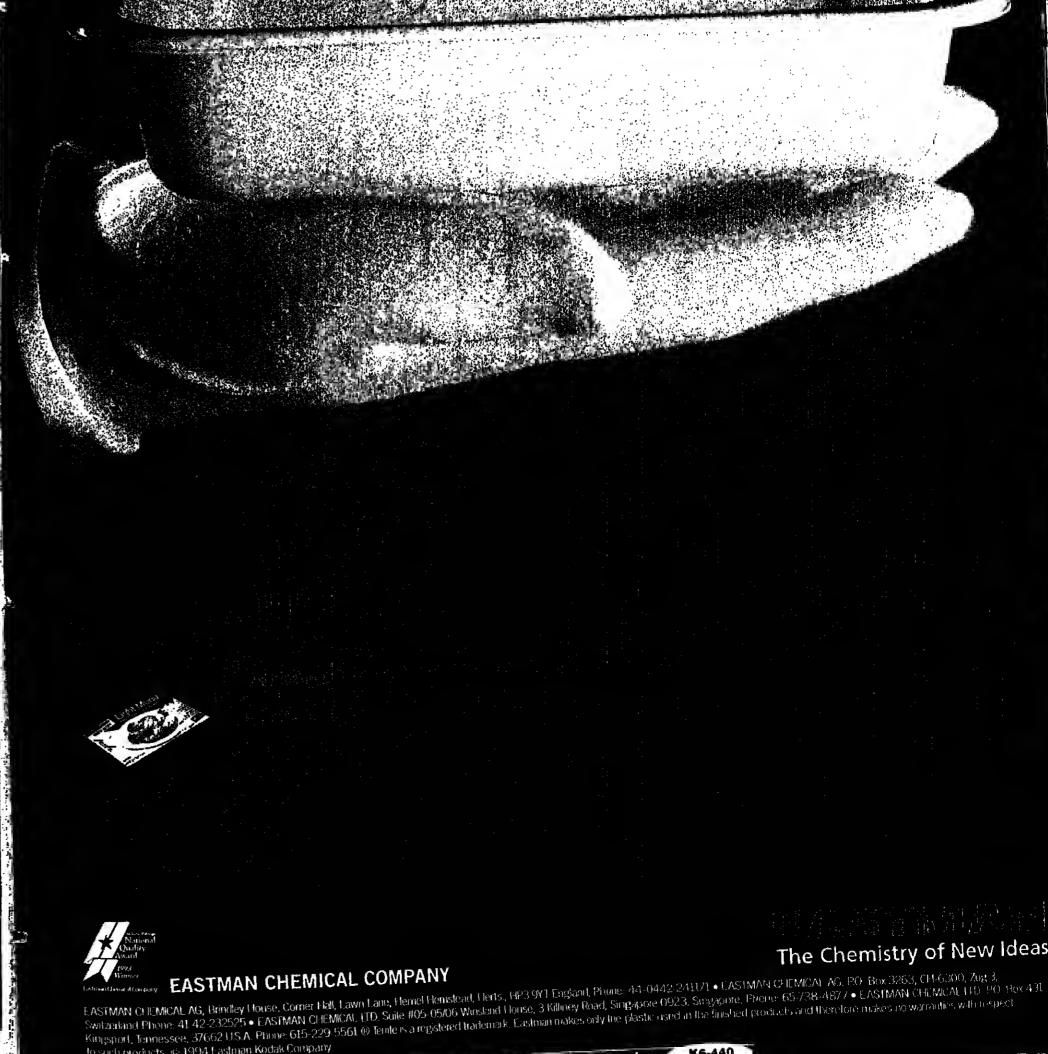
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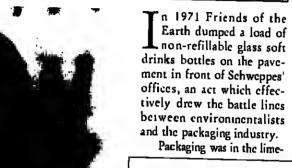
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The changing shades of green

We begin our six page celebration of the Industry Council for Peckaging and the Environment's (incpen) 20th birthday with technical director Jane Bickerstaffe examining the milestones that have influenced public perceptions of packaging and the environment since the 1970s.

Political and legislative landmarks are also charted in this speciel feature, and we conclude with the first report of incpen's consumer research on today's consumer percaptions of peckeging.



light, as these discarded bottles on the pavement coincided with a growing awareness of the scarcity of natural resources. The oil crisis of the early 70s certainly focused attention on the importance of resource efficiency.

In the 70s, as now, and as a result of general environmental awareness, packaging waste and litter began to receive enticism, simply because it was so visible. Environmentalists had captured the media's imagination and the attention given to their claims led to greater public concern about litter, which was immediately, and still is, equated with packaging.

In a Gallup survey commissioned by Incpen in 1975, 81 per cent of people agreed

that packaging was wasteful and unnecessary. When asked for examples, a third of people could not think of any. This suggested that although there was a high level of general concern about packaging, it was not related to consumers' own experience with the goods they bought.



The public concern about litter continued, even though a campaign by The Keep Britain Tidy Group tried to emphasise that litter was actually a social problem, and encouraged peo-



ple to be more thoughtful

about disposing of their water

environmentalists were poin-

ing the finger at industry, cal-

ing for it to solve the litter

problem with the introduction

of biodegradable packaging.

The thinking was, that if plan-

tics were made to break down

then they would be less ofte-

general public confused to

certain degree, about who was

By 1976, the public wu

given its chance to participate

in the environmental debate

ultimately responsible.

This tended to leave the

tionable if littered.

At the same time howere

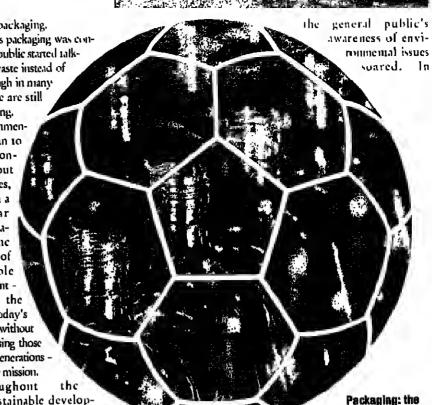
when the first bottle banks were launched in the UK. In 1978 Inepen set up the first Packaging Council to oversee a basic Code of Practice produced through the work of the Government's Waste Management Advisory Council.

The 1980s saw the emphasis shift from concern about conservation of resources to the garbage crisis or solid waste issue. By this time, environmentalists in the US and Europe who were leading attitudes on environmental issues, had stopped calling for biodegradable packaging and started campaigning for

recyclable packaging. As far as packaging was concerned, the public started talking about waste instead of liner, although in many minds these are still the same thing. talists began to shift to concerns about

global issues, rather ilian a particular issue in isolation. The concept of sustainable development meeting the needs of today's generation without compromising those of future generations became the mission.

Throughout 1980s sustainable development featured heavily and through much media activity,



1989, one barometer of public opinion, Time magazine, recognised something other than a public personality in its Man of the Year issue by naming 'Endangered Larth' as Planet of the Year.

One thing that certainly focused the spoulight on packaging was the launch of the 'Green Consumer Guide'. which brought the packaging/environment issue into consumers' buying decisions.

Nearly half way through the 1990s, the emphasis is shifting again. This time towards a broader approach that is closer to the concerns about resource conservation in the 70s than the solid waste concerns of the 80s. The debate is now characterised by a much greater focus on detailed research.

Some issues such as efes are no longer with us but others remain. The assumption that refillables are better than one

trips is still with us, despite the fact that all the evidence shows neither is inherently better than the other. But the campaigns continue and the public

supports them. In 1992 Inopen ser up the Packaging Standards Council to deal with consumers' concerns about packaging. Already much more active than its 70s precursor, the PSC has been welcomed by consumers, gov-

ernment and industry. It is to the credit of the environmental movement that industrialists and policy makers now include environmental considerations in their decisions. The challenge for the packaging industry is to continue to demonstrate by action, that it cares for the environment and is responsive to consumers' concerns.

Inepen will continue to provide the facts and inform the general public.



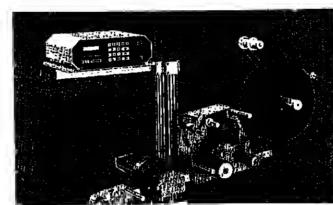
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injectold Works, Pullman Road, Wigston, Leicester, ... LESI2DE, England, Tel: 0533 - 881588.





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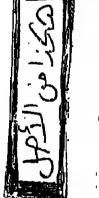
- Belgium defers implementation of eco-tax law. - Swedish Packaging Regulation adopted.

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PACKAGING NEWS/JUNE 1994





Legal and political landmarks

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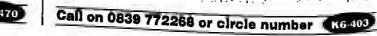
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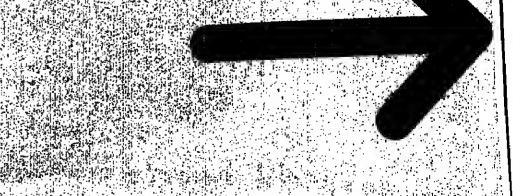
- Member states reach agreement on the draft EC Packaging and Packaging Waste Directive.

- Industry in the Netherlands (KAPS), Spain (ASODELO) and the UK (VALPAK) announce

plans for new recovery organisations.

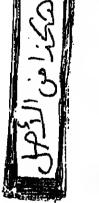
— Belgium defers implementation of eco-tax law. - Swedish Packaging Regulation adopted.

Proverbs 29:18



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PACKAGING NEWS/JUNE 1994



first strike in the battle for milk in this period which continues to rage in the 1990s - was nade in March 1962 when Rockware Glass began trialling a lightweight, one pint milk bottle in the York area. It weighed 140z, which was 30z less than the standard version.

Bottles were the same height and diameter as the original, so as to run on existing filling lines, but weight reductions were to be seen on the neck and base.

By September of the same year, PN was leading its front page with news of the Express Dairy Co using Tetra Pak cartons for all its half pint milk delieveries in London. Mr W Bell, chairman of Express Dairy confirmed that Express hoped eventually to convert all shop sales to cartons, including the one pint size, while continuing to use glass bottles for the majority of doorstep deliveries.

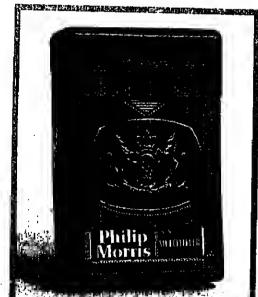
Express spent a lot of time explaining the change to the consumer of the half pint size through letters and follow up interviews.

These outlined the reasons for the switch, advice on handling the eartons and their disposal when empty.

By January 1963, two Midlands-based dairies were selling their milk on the doorstep via Pure Pak, gable-topped cartons. Mr Goodwin, md of one of the dairies said he had no doubt of the future of paper packages for milk. He was, apparently, one of the first dairymen to use cartons for the shop trade and other retail outlets that did not want the hassle of handling returnable containers.

*Today, housewives in the Swedish town of Motala are buying milk in the world's first square Tetra Paks. This rectangular shaped milk earton retains almost all of the desirable characteristics of the original Tetra Pak, a plastics-coated paper tetrahedron made from a single web of material and filled and scaled by machine."

So said PN in March 1963.



In the Early 60's Philip Morris LAUNCHED CIGARETTES IN A PLASTIC

LEFT: SMITHS CRISPS COULD BE BOUGHT IN A FAMILY SIZE FOR THE BARGAIN PRICE OF 2/6

BELOW: CONSUMERS WERE TEMPTED TO SAMPLE THE INSTANT DELIGHTS OF NESQUIK STRAWBERY FLAVOUR MILK SHAKES

tinplate cans for Esso, BP and Shell motoroils were being described. "Something like two thirds of all the motor oil sold from filling station forecourts in the UK are in open-top cans fitted with an aluminium strip that is easily torn away to expose two holes diecut in the can top."

Five months later PN reported: "If recent trials prove successful, British motorists may soon



As the sixties got underway, milk cartons of various shapes, sizes and formats started to appear in the pages of PN. Plastics substitution of traditional materials such as tinplate and glass also continued apace. Gail Lea looks back.

By April, Express Dairy Co were installing the UK's first Tetra Pak Asceptic machine for one pint carrons. "It is thought the aseptically packed milk will last for three or four weeks without refrigeration," said PN.

In other fields, the ralk was of the substitution of traditional materials with plastics alternatives

and by August 1963, PN was "underlining plastics' increasing stake in liquids packaging." This was not just in the food area, although pvc was doing very well in the orange squash market, but also in the non-food areas of household cleaning products and motor oil,

In May 1962, the benefits

be buying oil in one pint plastics bottles - and plastics will hid for a market, which only six months ago was taken over by timplate."

Castrol Ltd, Mobil Oil and Esso were all trialling one pint plastics versions.

Barely a year later, PN was reporting that Mobil was now using the standard one pint motor oil plastics bottle for its Permazone brand of anti-frecze.

And finally, anyone believing that the recent trend towards single- trip beer bottles and design er lagers was anything new will be interested in : Whitbread's launch of its Mackeson Stout and Pale Ale in what were described as "lightweight glass bottles that can be thrown away after use", in 1962. Whitbread were the first UK brewer to it use non-returnable bottles on a national scale. The beer bottles were also marketed in Clusterpak, multipack sleeves.

PACKAGING PICTURES KINDLY LOANED! FROM THE ROBERT OPIE COLLECTION AT THE MUSEUM OF ADVERTISING AND PACKAGING, GLOUCS -

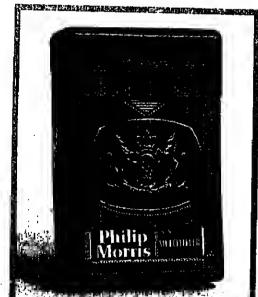
All too often names are changed purely for aesthetics. Reginald Dwight turned into Elton John and who can blame him for that? Norma Jean Baker became Marilyn Monroe, a name with far more sparkle.

So why should a well known leading national business like UK Corrugated ever want to change their name to Smurfit Corrugated? Well, the answer is simple.

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PMW Packaging Sales Co.



Leon Allen is now group chairman of the British Print Company (BPC). Mr Allen's most recent experience has been as chairman of Devro International, Previously he worked for RJR Nabisco and Proctor & Gamble.

Tony Vickers has been appointed managing director of Brush Steel Tinplate. Previously director technical of British Steel Strip Products, Mr Vickers replaces Don Turner, who has joined United Engineering Steels Ltd as md steels division.

George Copeland, mil of BlowMocan Lid, was elected at the agm of the British Plas-ties Federation (BPF) as prestdent. Vice presidents are Ed Weeks, director at BASF, and Mike Anderson, md of Linpac Plastics International.

Gareth Rhys Williams is now md European Operations for Rexham Custom, the coating and laminating business of Bowater ple. The company has manufacturing facilities in North Wales, Cheshire, Bristol and the Netherlands.



Carath Rhya Williams

Stefan Kay, md of Inveresk plc, has been elected president of the Paper Federation of Great Britain, replacing Dermot Smurfit. Mr Kay - who is also chairman of the Environment Committee - became md of Inveresk in 1989.

John Barnett, formerly md of Jarvis Porter's label systems companies, has taken over as an of Bristol labet prin er BH Mathews. Brinn Wall, previously in charge of Jarvis Porter's Leeds self adhesive company, is now md of Mathcws. The company was acquired by the management team in April.

Wilhelm Dalhoff has been appointed chairman of German company Krupp Maschinentechnik, a member of the Krupp Hoesch Maschinenbau group,

Adrian Lewis has been appointed md of AtoHaas UK Ltd. AtoHaas is a joint venture in the acrylic sheet and granules area between Elf Atochem and Rohm & Haas.

GINDON GEROSA



Or Gooffrey Blackbourn, Waddington & Guval's technical managa

David Robertson has joined

the board of Smith Anderson

& Cac Ltd as group finance

director and company serre-

tary. David Jackson has come

in as technical manager, with

Steve Pattinson previously of J & J Makin as product development manager.

Sven Eric Limilström, manag er of Neb Ab, has take cover as head of Kralt Products, a merger of Neb and Assi Kads borg Ab. Alf Nystram remains as und of Assil Jonian

Jacques Schor, chairman of Groupe CPC, has been appointed vice president of the

European Carton Makers Association (ECMA). Stuart Goode, and of CPC's UK sub-

sidiary company Slade Packag-

ing, is now chairman of the

British Carton Association's

Environmental Working

Colin Stanley, director general of the British Printing Pedera-

tion (BPIF), is to retire in Sep-

tember 1994 after six and a half

years in the post. An appoint-

ment panel has been formed to

manager of the Dieo division.

find his replacement.

Kalsborg Ah.

Geoffrey Blackbourn has Keverne Watt, previously joined David S Smith sublinance director with Jaycare sidiary Waddington & Duval Lol, has been promoted to deputy and. The company is Ltd as its technical manager. An expert in polymer chemalso launching a marketing iniistry, Dr Blackbourn has tiative, headed by and Rob Palworked with 1Cl, Courtaulds, lack, to develop new export Gestetner and Infolab.

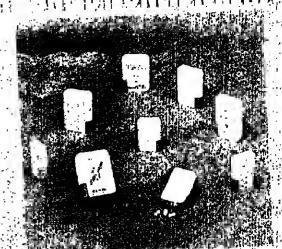
> Ralph Mortlock has taken over as director responsible for packaging market development at Independent Adhesive

Developments Ltd. Previously the hot melt specialist focused on the bookbinding and disposables markets.

Gary Upton has joined White Knight Products, specialists in CD boxes and video products, as manufacturing director. Previous posts were held with Silleck Mouldings and McKechnie Plastie Compo-

Les Earl has been appointed technical director at Corporate Packaging. He has been nine years with the company, most recently as technical manager.

Rudolf Le Poole has taken over as export manager with Dutch non-adhesive label manufacturer Sens Label, replacing Jop Dollée, who has retired after 12 and a half years with the company. Mr Le Poole joins the team from PLM (Glass) in Dongeit.



Abidypalendrologiamundhatip Character (double land) and the companied of the companie

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International. Former holder of the position Gerard Fournier has been appointed general manager of Scites. France.

PACKAGING NEWS/JUNE 1994

Case units save space

Three complete case packing systems were demonstrated by Blueprint Automation includ ing the Econoline case packer, said to take up considerably less space than conventional

Up to 90 bags a minute can be handled on the unit which is said to be a lower cost option for automating the packing operation than some larger systems. Also shown was the MCR-43 case packer which can handle case sizes ranging from 300 x 200mm up to 400 x 300mm. The UK address for Blueprint is: 12 High Street, Walkeringham, Doncaster, S Yorks DN10 41-1R - tel: 0427 891174, fax: 890869.

For further K0 Call for details information 118 0839 772285

Reel-fed tray system cuts material volume

Underberg. They are current-

ly producing 5-6 pack config-

urations on the unit including

2 x 10 small packs and 1 x 8 of

In operation, the tray and top

band is formed from paper

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while simultaneously cut into

two strips. If additional pack

the larger sizes.

Meet me in September

Cut into strins

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Developed in response to German manufacturers' needs to reduce packaging materials in light of the DSD system, the machine has now been installed at German company,

strip can be applied in the form of either a top tray or lid.

On-line printing

Both on-line printing of variable information via an inkjet primer and the use of printed papers are possible on the unit, says UK agent, Brian Gillard & Associates (PO Box 44, Malvern, Worcs WR13 5NS - tel: 0886 880567, fax: 880856).

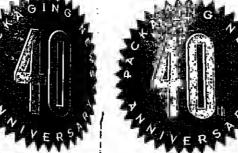
Because no blanks or mechanical adjustments for product changes are required. the unit offers a just-in-time production facility to users.

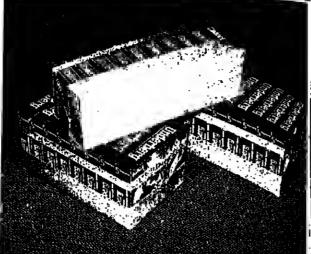
At the show, the company

was sporting its Eurostar Diplo-ma for its OSR unit, achieved in this year's competition.

Several other systems are currently being developed to handle a diverse range of prod-







Tha first fray packar cold was custom dasigned for this pack

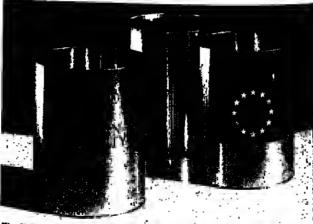
Low cost can for oil

This low cost, 5 litre can for vegemble oils was just one of the latest timplate containers on show from CarnaudMetalhox Speciality Packaging Benelux. The can has a maximum height of 236mm, has a seamed end and is now produced on a new production line at the Hoorn plant.

Also shown was a comainer suitable for babyfoods and other powdered products which features an aluminium

foil diaphram which can be peeled hack during use. One ; removed, a lever lid reseals the container making it a mono material pack for easy dispess!

The Jean-Paul Gaulter ! perfume can on show, wa: said by Gerard Stricher, general manager of CamaudMetalbox Speciality Packaging Europe to demonstrate the group's commitment to enter new market areas.



Tha 5 litrs can has a maximum halght of 236mm, with a seamed and The new Reader Enquiry Service, a HOT LINE to rapid response Save time and money with our new reader enquiry "HOT LINE". You can cell us 24 hrs a day leaving your name. address and the ref. number and leave the rest to us.





Shape surprise for gifts

An unusually shaped pe coated board container - rectangular with round edges - was launched by Ferry Pickering Sales Lrd as an ideal medium for gifts, food and toiletries.

The 200g container can feature an opaque pp lid or a clear styrene lid which, according to the company, will allow many different gift packaging ideas to be realised. It is said to be price competi-

UK companies buying muhi-trip ibes from T&D Bison and

exporting them to mainland

Europe can now have the con-

rainers either refurbished or

disposed of safely by new

Benelux agent, Janus Vaien bv.

Based near Breda in the

Netherlands, Janus Vaten

(Energieweg 1, 4906 CG Oest-

erhout, The Netherlands - tel:

+010 31 01620 50915, fax: 23064)

will now form part of the selling

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James Petty, operations director

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to the range.

the company (PO Box 6, Covenity Road, Hinckley, Leies LÉ10 OJJ - tel: 0455 238171, fax: 251338).

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wrapped confectionery, says

The ibc now has a larger

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It has been through UN

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A heavy duty version of this HRM has also been developed, and effectively doubles the ibe

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frame has been designed to last

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This development is to meet

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The shape will give a good

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First samples will be pro-

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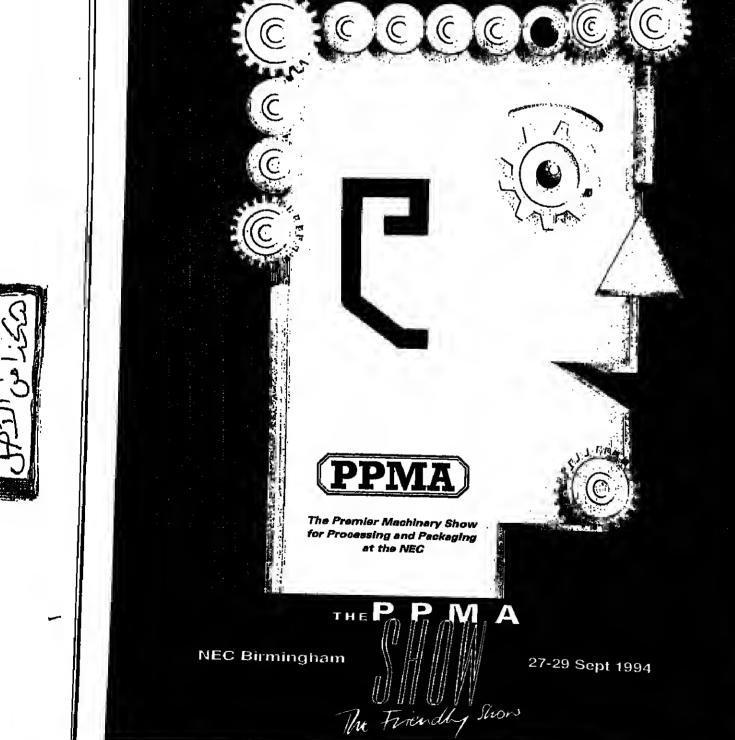


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Case units | Reel-fed tray system cuts material volume

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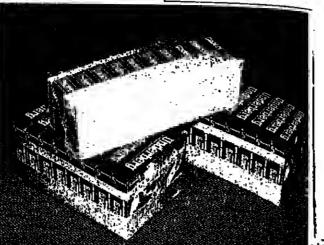
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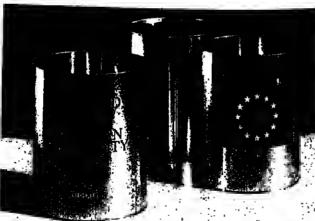
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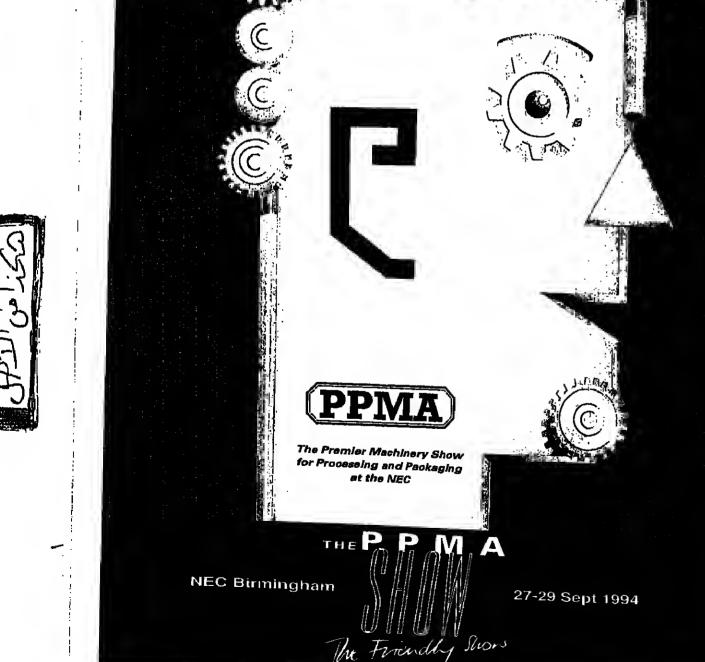
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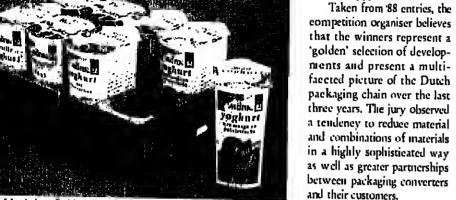
The 18th Golden Nut Dutch Packaging contest saw three entrants pick up gold prizes, 14

honourable mentions given to a further 29 companies.

Golden Nut winners were fresh flowers from Pagter the Cirkant plastics eup for Innovations and the Sufflepack from Van de Steeg Packaging

by, for floppy discs.

Veglaplast's Cirkant pp pot



Vagieplast by takae Goldan Nut for pp pot and tray combination

products is part square and part round and therefore offers a compact shape for both the retail shelf and transit. This design, along with the carton tray, meets excellently with the yogurt from Veglaplast by, the demands of the retail environ-Procona system for packaging ment, said the jury.

The Procona-system is said to emphasise The Netherlands' leadership in flower exports and represent a highly functional pack for the transit of fresh flowers.

Protection in transit

A corrugated container is fitted into a plastics water container which gives protection in transit, shop display opportunities and easy disposal when separated. The plastics pack can also be used many times.

power. The Shufflepack hun-An exclusively fibreboard dle packaging, displays cil's pack for floppy disks or ed's is without the use of any extra said to allow for optimunt closing devices or additional retail display and selling support materials.



Ithough this year's Instirate of Packaging Student title of Packaging Student Starpack Awards attracted a record 398 entries the fact that there were no gold stars presented indicated a lower standard overall than previously.

"Although the students had obviously worked hard in producing their entries, many fell short in their attention to detail or had not met all the requirements of the brief," commented chairman of the judging panel Houry Emblem of Morplan.

The awards were presented by Jürgen Hintz, ceo of competition sponsor CarnaudMetalbox at Macropak last month and, at the invitation of the sponsor, thirty students travelled to The Netherlands to pack of herb seeds. pick up their awards.

Eight silver stars, 19 bronze stars and a number of special monetary and work experience/bursary awards were presented by Mr Hintz during the eeremony. "We recognise the potential for much better design of Art & Design.

Record entries for Student Starpacks

AWARDS

The most succeesful entrant was Suzenne Hudson at Amershem & Wycombe College who won e Silvar Star, the IOP Award, the Gordon Wilson Trophy, the Prastige Award end e work experience



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codes, dates, serial numbers, Ingredients.

On show from Hoogovens IJmuiden was a prototype ver sion of the steel Ecotop push button can end which is 20 per cent lighter than the existing 206.

Van da Staeg Packeging by

takes Goldan Nut for innovetiva

concapt in bundle packaging

Emphasising the lightweighting success over the last few years, the company has reduced weights down to 27g which will be down to 23g by the end of the year. Expectations of an all-steel can down to 18g in the coming years is also projected by the empany

Huntiden, The Netherlands tel: 010 31 2514 94773).

Pagtar Innovellane wins telen .

Nut for functional packaging

for fresh flowers

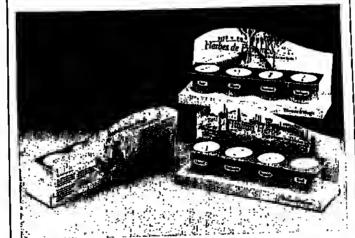
Also seen in the show war samples of what the company describes as Hexible steelpub tging' which will be suith for producing trays for pafoods as well as human food products. This uters thin his : nated steel will be marketed is ! Europe by Hoogovens.

For further KG Call for 45

James Sanders of Richmond upon Thames college gained a silver star and the £500 Lawson Mardon Group Award, while

the David S Smith Packaging Award was presented to Sarah Wallman of Norfolk Institute

Chislehurst for his silver star





Matalhox'a award and the CPS Award want to Rugart Sager-Muegrave of Ravenebourna for his Silvar Star peck of herb eaads. Leit: Jamae Sandara of Richmond upon Thamas Collage also galnad a Sliver Star and the Laweon Merdon Award

packaging designers," he said. Taking the Eric Dickens

Memorial Award for the most successful college in the competition for the third year running was Swindon College of Art & Design, while the most successful entrant was Amersham and Wycombe College's Suzanna Hudson. Suzanna won a silver star, the IOP Award of £75, the Gordon Wilson Trophy and the Presinge Award of £200 and a work experience opportuoity.

CarnaudMetalbox's award Design and Communication, entry meets the brief.

Reflecting the lower standards was the fact that as well as no gold star presentations, no BPC Taylowe, MPMA or IOP primary awards were given.

When assessing the entries, the judges are looking for a 'complete' package. Attention to detail, supporting material, research, cost effectiveness, technical feasibility, design, graphies and construction are all regarded as important.

just one of these areas then this could mean the difference of a two month work bursary at between a gold and silver one of the company's European award. According to the IOP locations and the CPS Award (tel: 0664 500055), students and went to Rupert Sagar-Musgrave tutors should ensure that the of Ravensbourne College of brief is understood and that the

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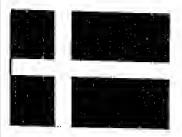
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LOGISTICS SYSTEMS ENGINEERING

PACKAGING NEWS/JUNE 1994



In Sweden no packaging legislation has been passed as yet but the latest environmental initiative by the environment ministry is an Ecocycle Bill with recycling targets.

The main thrust of the Bill is to encourage producer responsibility and dates have been set for secturs under which they must comply. Olof Johansson, Sweden's Minister for the Environment, believes: "Manufacturers will show greater interest in turning out products that can be recovered or recycled."

Only two sectors, glass and corrugated board, are currently complying with the producer responsibility targets. Other sectors were due to comply as of July 1 but this looks increasingly unlikely, a spokesperson for the environment ministry tells Packaging News.

government is expected to finalise the recycling targets for each packaging sector, following the publication of an interim report by the Swedish Environmental Protection Agency on the proposed targets. Under the Bill, targets of

over 90 per cent by 1997 had been proposed for glass bottles, aluminium cans and pet bottles. However, the Environmental Protection Agency has suggested much lower targets of 30 per cent recycling or reuse for plastics and paper; 50 per cent for aluminium and

An additional objective of 20 per cent energy recovery from plastics and paper must also be reached by the year 2000. A total recycling level of 70 per cent has been set for all materials by then.

The proportion of packaging in household waste is currently estimated at 25 per cent by weight and 50 per cent by volume. The government proposes that plastics that are derived from finite natural resource should be recovered and recycled on a greater scale.

Heavily pollutant plastic materials should be avoided

be given to the development of alternative plastics manufactured from renewable raw materials. The use of chlorinated plastics such as pvc in produets with a short service life will be phased out.

Waste to energy recovery is a key option within the government's waste management strategy and about 56 per cent of municipal waste is recovered Since January, household-

ers have been required to separate their household waste into separate containers for metals and plastics, paper, cardboard and glass. This is in addition to the existing requirements for separating newspapers, aluminium cans and bottles made of glass and plassies. The average material recovery rate is around 16 per cent.

To further encourage sorting at source a waste tax is being discussed. This will form part of the Waste Collection and Disposal Act.

In Belgium, ecotaxes loom. As of April 1 soft drinks and sparkling water in nonAs the European Union's packaging Directive continues its route to adoption, member states still have time to eloborate their response to packaging problems. Camila Reed looks at the action of some of our European counterparts

have had a Belgian Francs 15 per litre tax and Belgian Francs 7 on drinks cans and smaller plastics containers. These have been deferred until December 31 so that industry can meet the exemption conditions.

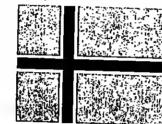
Beverage CanMakers of Europe (BCME) tells PN that: "The moves by the main Belgian mineral water producer, Spadel and major retailer Colruyt to dramatically increase the use of refillables does not help industry efforts to demonstrate how unacceptable the law's prime reliance on refillables is for the modern market place."

Refill quotas have been introduced: 60 per cent for soft drinks and 95 per cent for beers by 1998. In addition, there are short-term recycling quotas for non-reusable drinks containers - 80 per cent in 1998

Efforts to get the ecotax thrown out permanently by appealing to the European Court of Justice have fallen on deaf cars so far. However, the BCME along with other packaging associations is pinning its hope on the EU Packaging Directive Council of Ministers' position which says that reusable and recyclable are

"National legislation such as the Belgian ecotax, whose fundamental objective is precisely to discriminate between these different packaging systems and materials should finally become illegal under European Law."

equally valid.



Norwegians have been paying more for their pint since the beginning of the year with the introduction of two taxes on disposable drinks packaging, including returnables.

A basic charge of 70 ore



law. Recycling, waste reduc-

tion and the methods of treat-

ment for each waste stream are

detailed, the Junta de Andalu-

weste compactora operating in

55 countrias. Some 10,000 of

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Thare ere now over 22,000

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cia tells PN.

has been introduced on all The Southern Spanish region drinks packaging, while a speof Andalucia, has just cial environmental tax of 3 approved an Environmental kroner is being levied on Protection Law, which will wines, beers, spirits and carimprove enforcement and regbonated drinks and 30 ore on ulation of environmental pracnon-carbonated and non-altotices in the region. Packaging waste falls under the Environmental Control section of the

Only milk, and drinks made from coffee, tea and cocoa arc exempt from the environmental tax, which is reduced according to the returnable content of the packaging.

holic drinks.

Packaging with a returnable share of 0-25 per cent pays the full tax, packaging with 26-94 per cent returns pays a gradually diminishing tax, and drinks packaging where 95 per cent or more is returnable will be exempt from the tax.

How much the tax will be reduced between the 26 per cent to 94 per cent band is still being negotiated by industry and the government.

Results from two Scandinavian Undoubtedly, the packagrefuse derived fuel and packaging industry is critical of the ing derived fuel programmes, taxes claiming they do not supported by the APME conform part of any coherent clude that Europe could save strategy and are unlikely to \$1000 million a year in nonhave any positive effect other renewable fossil fuels. Results than fill the Treasury's coffers.

of the programmes together demonstrate that combustible packaging, mainly plastics and paper (1.2 per cent of Europe's total waste) can be converted into a fuel with a higher energy value than peat, wood or brown coal.

TIMCON, the timber packeging end peliet confederation, is supporting an incentive by the World Wildlife Fund for Neture that could result in an Internetionally recognized certificete for timber tram environmentally acceptable sources with an Independent body to oversse certification of sustainable timbar.

The European Commission continues to debate with representatives of Member States the unresolved differences on the EU Directive on the landfill of waste. Problems still remain over co-disposal, preferential treatment of small landfills and the waste acceptance criteria.

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Europe's pet bottle recycling rose from 18,000 tonnes to 23,000 tonnes in 1993, repons Petcore, Pet Container Recycling Europe.

ENVIRONMENT NEWS

The Pulp and Papar Information Centre (0793 B87466) has isaued en informetion leeflet on environmental labelling. Information has been gethered

from cources in Europe end North America. And in an ettempt to counter felse cleims from environmental pressure groupa, the Cantra is elding companies naeding fects end figures at their tingertips. It is alding McDoneid's, which has decided to sue peopte personally for wrong otetementa mede ebout its products.

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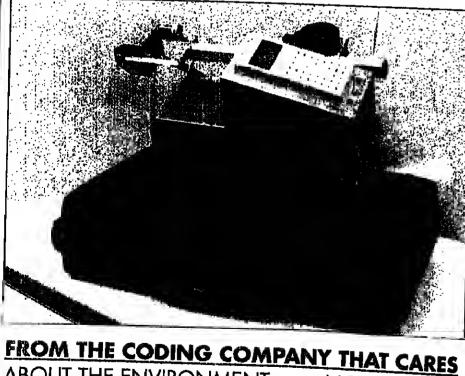
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9-10 June Inpack

Packaging exhibition, Gornja Radgona. Slovenia. Pomurski Sejem, YU-69250. Gomja Radgona, Slovenia - tel: 38 69

B-10 June Upakayka

Packaging Irado lair, Peim, Russlan Federation Roger Pilkington Associates. Europe House, World Trade Centre. Lendon E1 9AA - Iel. 071-488 3344 B-12 June Printing & Peckaging 94 (ITM 94

International printing and packaging equipment and materials exhibition. Kuala Lumpur, Malaysia. Andry Monigomery Lid, 11 Manchesior Square, London W1M 5AB - lel: 071-486 1951 fax: 071 486 8773

16-19 Juno Printing of peckaging Course, Leatherhead, Pira International -

lei: 0372 376161 18-19 Juno Interphenn Pharmaceulical trade Fair, Leipzig,

Germany, Inlech Overseas Fairs Ltd, P O Box 142, Rochester, Kent ME3 7NR - left 0474 824092 21-29 June ICAP Espe 94 Exhibition and conterence on automatic 30-3 August/September

and identification and data capture, NEC, Birmingham, Advanslar Exhibitions - tel. 0244 378888, Jac 370011 20-25 June Corrugated 94 7NR - Ial: 0474 824092

Exhibillon, Villepinte, Paris Katrina Rowbury, Reed Exhibition Companies tel 021-705 6707, lax: 021-705 4380 21-23 June intrade '94 Trade show, Wembley Conference Centro Settorm Exhibitions and Conterences Ltd, Europa House, 13-17

lionmonger Row, London EC1V 30N let: 071-253 2545 27-1 June/Juty Europaoktec/Interplectice Packaging machines and equipment.

modernals and printing exhibition. Warsaw, Poland Nowea International, Postlach 320203, D-4000 Dusseldorf 30. Gennany - lot. 49 211 456 002 6-10 July

ITM '94 International trade fair, incorporating Printing & Packaging '94, Kuala Lumpur, Malaysia BCI Overseas Fairs Oivision, George House, George Road, Birmingham B15 1PG - lel: 021-455

7-10 July Mould and Dia International exhibition, Hong Kong Business and Industrial Trade Fairs 18/F First Pacific Bank Center, 51 Gloucester Road, Wanchai, Hong Kong lel: R52 865 2633 20-23 July

International confectionery exhibition for linished products, processing and packaging machinery, Tokyo, Japan. Overseas Exhibition Services, 11 Manchesler Square, London WIM 5AB -

Jel: 071-486 1951 9-12 Auguet Peckaging and tood processing Exhibition, Jakarta, Indonesia. Top Reputo Co., 2102 Fu Fai Commercial Centre, 27 Hillier Street, Hong Kong tel. 852 B51 8603 19-21 August

Internetional packaging and lood processing exhibition, Kuala Lumpur, Malaysia ADG Exhibitions, 1 Woodside Road, Ameisham, Bucks HP6 6AA - tel:

Trade lair for the printing industry. Leipzig, Germany, Intech Overseas Falis Ltd, P O Box 142, Rochesler, Kent ME3 31-3 August/September

AsieFood International exhibition of food processing, packeging and handling machinery, equipment and technology. Manila, Philippines, Trade Information Marketing and Exhibitions, S-324 Secretarial Building, PICC, CCP Complex, Roxas Boulevard, Pasay City, Manita, Philippines - tel: 632 832 0309 5-9 September

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13-16 September Lebelexpo USA '94 Exhibition, Chicago. Labelex Exhibitions Lid, 131 Southlands Road, Bromley, Keni 8R2 90T - lel: 081-313 3535 15-20 September

Packaging Itade lair, Beijing, NOWEA International, Ms Ule Windhausen, Postlach to 10 06, 40001 D0sseldorl let. +49 211/4560-743

1B-20 September Tekyo Pack Exhibition of packaging materials and machinery, food processing machinery and equipment, Tokyo, Japan Japan Packaging Institute, 7F Kashikichi Ningyo-cho 8tdg, 3-10-1, Ningyo-cho Nihonbashi Chuo-ku, Tokyo 103, Japan

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Exhibition Companies (UK), Oriel House, 26 The Ouadrant, Richmond, Surrey TW9 10L - tel: 081-948 9800 0911/8606-0 21-22 /Septombar EASME 94 European adhesives and sealants

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Redhitl, Surrey RH1 10S - Iel: 0737 Typopeck 768611, lax: 761685 International graphic arts and packaging 22-25 Septomber exhibition, Thessatonika, Greece, ICO lul Packeging Foous '94 Tsirlmokou, PO Box 19025, Aftoms 117 10, Greece - lel: 30 901 001G

Packaging exhibition and conference, on board P&O's Sea Princess Richmond Evenis, London House, 243-253 Lower Mortlake Road, Ricmond TW9 2LS - tel. 081-332 2422 22-25 September Printpack 5/ProcessFood '94

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22-29 September Thei PeckPrint Packaging and pulnting exhibition and conference, Bangkok, Reed Exhibition Companies - tel: 081-940 3777 27-29 September

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AFERA Congress Congress of the European Sell Adhesive Tape Manulacturers, Annecy, France. AFERA Secretariat, 60 rue Auber, F 94408 Vitry Sure Seine Cedex, France lax: 010 331 45 21 03 50

29-1 Saptember/Gotober FechPeck 94 Trade exhibition for packaging, labelling and storage lechnology, Nuremberg. Moinbeig Messe GmbH - tel: 29-1 9eptember/Octobor 4

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exhibition, Paris-Nord Exhibition Centro. Printexpo, Johannesburg, South Bishops Bridge Road, London W2 600 Institute of Packaging (Services) - tel-Offit 500055 11-15 October

> MEBA Trade fair for metal processing, Leipeg Germany, Intech Overseas Fairs Ltd. PO Box 142, Rochester, Kent ME3 7NR - tal 0474 824092

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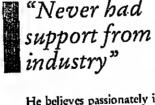
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is one of the few groups where

"I have never gained any

direct support from the packag-

ing industry," he says. "We

have tried over the years to gain

sponsorship, but there always

scens other things for them to

his contacts are weakest.

spend their money on."

Bragg's Start the Week.

people have been to visit.

al public. He talks

about his ambitious

plans to Gail Lea.

He believes passionately in learning from the past and thinks that packaging should form part of children's social history education. Packaging along with retailing, advertising and the product itself makes up of packaging since 1969. In 1975 he set up an exhibition at the Victoria and Albert Museum in London called The Pack Age - A Century of Wrapping It Up. It caused a hell of a stir, he says and it was the only time the V&A had to lock its doors. He doesn't think it was just because a Wombles exhibition

was running concurrently... It got unprecedented press coverage with The Times covhas been researching the history

ering it three or four times in its eight week run as well as several mentions in the Sunday papers. In the exhibition's accom-

r Packaging

ADBURY!

would be justified in doing so.'

panying leaflet Mr Opie wrote: Whether or not the social historian of the future will look back on the past hundred years as being the Pack Age, remains to be seen. Certainly they Mr Opie formed his com-

pany with Edward Garling -

fund-raising visit to Metal Box - in the early 1980s, and the inuseum opened its doors in August 1984. A steady stream of visitors have since been wel-

row's consumer. Currently, the many highly visual displays are set up to represent nostalgia, but Mr Opic

comed by Mr Garling and his

wife Jan, including a huge num-

ber of school cluldren - tomot-

at his west London home: the packeging of consumer goods has hed e levelling attact upor sociaty

would love to do more in terms of connecting this past to the visitors' next trip to Tesco.

"We could help the packagng industry enormously, and or a comparitively justifiable outlay, by putting the benefits of packaging across to the publie," he says. He believes that

"Museum could educate the public"

people's endless miseonceptions about waste and environmental issues will remain as no one is explaining things to them in a sensible way.

"Our muscum is an absolutely ideal location for persuading people of the benefits in a fun arena," he says. "Why not have a wonderfully nostalgic display beside an exhibit which shows an environniental story?" he asks. The reason why not, is unfortunarely, the lack of funding.

Mr Opic would also like to chart the history of around 300 key English brands, such as Oxo, Ovaltine, Colmans, Cadbury and Lyons. Our museum was set up from a nostalic point of view to please the public, he says, so we do not show the technical changes of innovations in context at present.

"There is a lot more we could do for the packaging industry," he says. "A bit of spousorship would start to transform the place.

"t can, in part, understand industry's reluctance to support a venture such as this: but the potential for influencing public opinion is there for the taking, he says. "I cannot be the unpaid archivist of 1000 companies for

B The Museum of Advertising and Packaging is at the Albert Warehouse, Gloncester Docks, Gloucester GL1 2EH - tel: 0452 302309. It is open throughout the year: Tucs-Sun, 10am-6pm (5pm winter).

MEETING

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the consumer society we live in

today and these should be

looked at in an historical con-

"My gut feeling is that you

have to understand the past to

understand the present and

therefore understand how to

at school, Mr Opie started col-

lecting modern packaging and

Back in 1963, and while still

make the future better."

text," he explains.

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3M hes folined forces with Pechiney International has Astne UK and Twinpack to ecquired a 40 per cent share in promota e renge ot hendte Cepolo, the Italien canmaker applicators and multi pack with a turnover of £110 million. taping eystams in the UK and Pechiney elready hea two other Ireland. Aetne (0234 376744) italtan subsidieries and witi eleo be responsible tor belteves this letoet shareholddietributing 3M's lenge and ing will consolidate its position hendlas in the UK. In the Europeen merket tor tood end general tine cans. Capoto will continue to be menaged by

Viskase, the UK supplier of food casings in the UK, has completed its merger with fellow food packaging company, Filmeo

THE TECHNOLOGY OF TOMORROW

TO SOLVE THE PROBLEMS OF TODAY

Euroform. The two companies will be known as Viskase Ltd (0222 388262), with both manufacturing sites continuing to operate. Md Bob Brown says: "Both Viskase and Filmco were part of the same parent group for several years, but we had operated almost in competition with each other rather than in cooperation."

Peter Sengalar, tormer md ot SCA Peckaging Ltd, hes purcheed the company's specialist printing end point-ot-sela operations at Corby. The three unite heve now been emaigemeted to creete CRP Print & Peckeging Ltd (0536 200333). It elms to tocus on five erees: reet-to-real printing tor the corrugeted industry, contec-Honory peckaging, screen printed promotional products, tloxo end lilho-leminated dinplsy packs and carbon protective sleevee end Stretchy



Bob Brown, md ot Viskeee Ltd, end Roger Evee, merkeling menegar

er, MAB erl, hee appointed ACM Mechinery Ltd ee its The new force in corrugated

> GUK Machines Ltd (0553 776008), the manufacturer and supplier of bagging and slieing equipment for the packaging and baking industries, has joined Howden Packaging Equipment Ltd and has changed its name to Rose Forgrove (Bagging & Slicing).

Kronee AO, the Germen tilling end packaging mechinery manutacturer, incressed He globel salee by 17 per cent on lest yeer to BM1,300 million and the turnover rose by 13 per cent to DM1,000 million. Around OM74 million was invected in expending effecting 1993. Group earnings remeined et the seme level ea the previ-

Hellen Mechinery menufacturexclusive egents in the UK and Southern Ireland. ACM (0734 811671) will be reeponsible tor eelling MAB's renge of wreperound certoning and case pecking equipment.

ous year at DM58 million.

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PACKAGING

Macfarlane Group (Clansman) ple, whose interests include Abbutt's Packaging, supplier of a large range of packaging, has moved to Clansman House, 21 Newton Place, Glasgow G3 7PY, tel: 041-313 9666. fax: 041-333 1988.

Sypol Environmental Management Ltd (0296 425715) hes leunched CHIPbase, e dalabese sottwere peckega deelgned to ensure compliance with the Chemicals Hezard Intermetion and Packaging (CHIP) ReguleIlona.

4P Packaging UK Ltd (0442 236800) has been appointed the UK agent for the Keyes Fibre Dual Ovenable Food Container Range - Ovenware II.

Seneschel Sarylcea Ltd (0234 213571), supplier of machinery to the pleatics industry, has been mede the egent tor Talwenese Lung Many Machinery Co Ltd to sell its pe extrusion mechines, pleatics bag-making and recielm mechinee in the UK, Europe and Nordic countries. Europeen ecrews, barrels and die heeds ere used in the blown extruding machines.

ColourGen Distribution (0628 526666), has been appointed as the UK distributor for the Encad NovaJET full colour 36 inch inkjet printer/plotter.

The industriel division of Evoda Ltd (0786 57755), ls eeeking to appoint primary distributors in meny parts of tha UK tor its Evo-Silk e dhealves end eaclanie. The company wiehes to build e strong netional network of primary end secondary dialibutora.

Mrs Russotto obtained her law degree in Belgium, and it was for this expertise and her knowledge of EC institutions that she was taken on by the APME's pvc group in 1988. In the intervening years, the legislative challenge facing the industry was the primary con-FULYTHENE LIMITED cern. Her contribution to the **MANUFACTURERS OF** APME soon went far beyond the pvc group, and she took POLYTHENE FILM & BAGS

developed and its Brussels

cations director, heads a small team in Brussels but also a European network involving to different pr and communications companies. The aim was to reach opinion formers with the industry's own messages, counteracting those -

Plastics Recycling

in particular direc- The togo of the Pen-Europeen bottle recycling initiative

headquarters at the centre of the European legislative spider's web, communications remained as the fourth area left

Alan Griffiths, communi-

largely critical of plastics from environmental groups.

MEET THE ASSOCIATION

Promoting plastics benefits

Meanwhile, the need to Since 1992 the quarterly demonstrate the industry's Packaging Communique has ability to come up with its own environmental solutions to been sent to over 12,000 senior managers around Europe, highwaste issues had led to the forlighting environmental issues. mation of the Plastics Waste Briefings and visits have been Management Institute arranged for journalists, with (PWMI). Last year this was fully integrated into the associgiven media relations aims each year backed up by a stream of ation as its teclinical and enviliterature and research.

Sinca Its creation in the 1970s, the Association

of Plastics Manufacturers in Europe (Apme) has

anvironmental pressure groups and the threat

of legislation. Now the door is open to the

Anma's more positive promotion of its

mambars' products, writas Paul Gandar.

October 1990.

ronmental centre.

increasingly found itsalf reacting to

conscious shift is tak-

ing place in the APME
(Association of Plastics

Manufacturers in Europe) from

being an organisation primarily

addressing environmental

issues to one concerned with

communicating the benefits of

As an association it repre-

sents 40 European polymer

producers, accounting for

some 90 per cent of Western

Europe's production capacity.

its area of concern extends

from the raw material of oil as

far as plastics granules, but no

further, and though they will

liaise and exchange informa-

tion, there are no formal links

with the national plastics

When the association was

set up in the mid 1970s, the

impetus was towards perpetu-

ating the growth in the use of

plastics and their contribution

to European economies.

According to a 1975 statement

of aims, APME set

out to "coordinate

and support all

efforts aiming to

further the safe pro-

duction and safe and

economical applica-

tion of plastics, and

thereby contribute

to common techno-

A lot can be

learned about the

APME and its pri-

orities in the 1990s

from the back-

grounds of the asso-

ciation's directurs,

tor general Nancy

Originally from the USA,

over as director general in

Russotto.

logical progress".

industry bodies.

plastics to a wider public.

The association structures Fred Mader, director of the itself both in terms of polymers PWMI, became the deputy director general of APME. A - with ten product committees - and other sector-based comchemist by profession, Dr mittees dealing, for example, Mader has spent much of his with food packaging.

working life with Hoechst. Packaging has received With the association's conmost attention up until now, tribution to technical and envibut increasing importance is ronmental debates already

European

being given to issues involving other "priority waste streams": automotive, cleetrical products and the building

According to the APME, the industry learned from the changes in public awareness experienced by the packaging industry over only a few years. In this time interest has

shifted from biodegradability to mechanical recycling and now to integrated waste management and resource optimisation.

"We've learned from packaging that you shouldn't let pressure build up to the extent that you start to lose markets, and should never take for granted that the public will have a certain perception of your material," says Mrs Russotto.

The lessons learned from the lead up to the packaging directive can now be applied to

Ruasotto, APME director general: epplying leseons learned

other sectors where, says Mrs Russotto, the association will move much faster. She denies that one of APME's principal roles will be over with the final draft of the packaging directive. For a start, she says, the review mechanism will prove to be a vital part of the directive for the industry.

Among its membership, the APME has access to a huge pool of technical expertise. Ecobalance information is collected and communicated by the association, so avoiding duplication and lending authority to the data. There are strong links with the North American and Japanese equivalents of the organisation, says Mr Griffiths, as well as vertical links with the petrochemical

and chemical industries. Among recent successful projects initiated by the APME was the Pan-European bottle recycling initiative, which got underway in May 1993. Having identified this as a key area where the feasability of different collection, recycling, end market and other waste management options could be assessed, APME has set out to collect as much data as possible.

As an extension of this project, Petcore (pet container recycling Europe) has been set up by plastics producers and converters to promote the collection and recycling of pet.

The technical and environmental centre of the APME divides its data collection activities into two areas: sectorial looking at packaging and the other three major sectors - and

integrated waste management. Task forces comprising experts from member companies concentrate on each of the sectors, but also on the mechanical recycling, feedstock recycling and energy recovery aspects of waste management.

End results could be lifecycle analyses, cost/benefit evaluations and cooperation with EU bodies. Life cycle analysis collated by the APME for individual polymers can be applied to the point where granules are formed, or extended to the converted pack. At a certain point individual companies' own research must take over, says Dr Mader, but the APME's own research is also now concentrating on the waste management end.

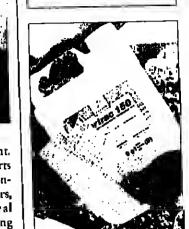
There is a budget for technically oriented studies, such as incinerator tests in Finland, which are soon to be followed up in Japan.

Large amounts of research by APME members are going into such areas as Refuse Derived Fuel (all combustibles from municipal solid waste) and Packaging Derived Fuel (just fibre and plastics).

In some areas such as feedstock recycling, association menbers are keen to apply their own technology to come up with the optimum solution themselves. In Europe, local legal requirements mean that most activity to date most recently with BASF - has taken place in Germany.

APME is based at: Avenue E. Van Nieuwenhuyse 4, Box 3, B-1160 Brussels - tel: 32-2 672 82 59, face 675 39 35.

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"In a number of places we see that products and packaging used by older people are designed by younger people with little or no attention to functional limitations experienced by older people due to the ageing process."

So said Dr Laxman Nayak, director of research at the Centre for Applied Geromology at the University of Birmingham, who went on to outline some of the problems.

Applied Gerontology is defined as the study of the interaction between consumer prodnets and older people, and the centre was established to oncrease the awareness of designers and manufacturers to the differing needs of older people.

Although older people are now perceived as great in mimbers and greater in spending power and, as such, are the targets of much commercial

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dently in the community. Called the Thousand Elders, the group help in consumer group evaluation and market research surveys. A subset is the Thousand Readers' group which help marketeers to produce better designed instruction leaflets.

If, after evaluation by the Thousand Elders, a product is found to be generally suitable for use by older people then the product is awarded as Owl Mark - the Centre's endorsement for good design.

55 and over living indepen-

In a recent Lifestyle Questionnaire Survey using the Thousand Elders, it was found that 42 per cent suffered from a bad back; 35 per cent had arthritis; 31 per cent had problems seeing near objects; 24 per cent had dexterity difficulties and 23 per cent found it hard to reach and stretch.

"Packaging designers should be aware of this deterioration and always bear in mind that if a packet is worth getting into, it should be easy to open," he said.

The Centre of Applied Gerontology - tel: 021-414 3407

poses the biggest problems

Jean Asherofr, mbe is director of the groeery industry and its policy and campaigning at preliminary research into this Arthritis Care and, as well as area showed that there were a outlining some of the difficulgreat number of accidents assotics experienced by sufferers, ciated with opening food and gave a practical demonstration drink packaging. These findings with a shopping basket of prompted the IGD to conduct everyday branded goods. Deleiıs own survey. gates were therefore shown the problems caused by certain lished a detailed consumer surpackaging designs to Jean - a vey, conducted in association sufferer of rheumatoid arrheitis wirh Birmingham University.

"Weak grip and inability to squeeze or to press"

for 23 years - rather than just

hearing about them.

"The main symptom of arthritis is pain, but there are many other associated problems," she said. These include lack of overall strength, weak grip, inability to squeeze or press, lack of manual dexterity and reach, as well as the inability to rotate the hand or arm.

Arthritis is the largest single cause of physical disability in the UK, with around 20 million people experiencing some form of rheumatic complaint during the course of the year. It is therefore one that a marke-

teer cannot ignore, she argued. As well as openability, Jean talked a great deal about handlability. If a pack is too heavy, wide, slim etc, it is just as difficult to handle, not alone open.

Atthritis Care's mission is to work with and for all people with arthritis to promote their health, well-being and independence through services, support, self-help, information and influence. As such, the organisation welcomes contact with industry to work together to solve some of these problems. Arthritis Care - tel: 071-916

tapered, has a bulbous base to

The glass conicel food jer design, she said. Rockware Glass - tel: 0977

Technology licensing

Colin Seaife outlined the

dilemma for over the counter

(ore) and ethical product man-

nfacturers in trying to preserve

integrity while providing easy

He did, however argue that

industry had to develop prod-

could be taken easily and most

importantly, dosage regimes

There is a growing per-

centage of the population for

whom consumer-friendly

packaging is becoming essen-

tial, he said, but legislation

and public opinion are forc-

ing manufacturers to adopt

specific packaging styles and

closure systems with little or

no regard given to 'in-use'

performance, especially ease

The keynote speaker at the

Easy Open symposium was

The Earl of Arran, Parliamen-

tary Under Secretary of State at

the Department of the Envi-

ronment, who began by stating

the essential tole that food

"Key to the problems

however are that there is too

little, too much or, I would

argue, too much bad packag-

ing," he said. He did however

believe that the industry was

waking up to the issue of con-

sumer perception of packaging.

"The industry needs to give

packaging plays in society.

could be complied with.

access for consumers

manager of Reckitt &

Colman Products Ltd,

ucts with proven efficacy which the integrity of the pack, she said, which is why a three stage programme has been put in

place by the organisation. Stage I calls for Immediate improvements which is already underway, while the next stage will concentrate on the worst pack types and stage threecalled Judgemental Improvements - will involve case studies of best practice and take a ! longer term view.

One thing Ms Moore of opening. He argued that the greatest stressed was the importance of industry and consumer groups control on the packaging building up a relationship industry will be in the Direcwhich involves co-operation tives emanating from the Euro-"Industry must learn more pean Parliament. For example, about consumer needs but also the implementation of the consumers must understand Medicinal Products Labelling industry's position." and Leafleting Directive.

elderly and infinn. elderly when opening a pack He went on to outline a for the first time. potential constraint on the pharmaceutical industry in try-'We should ing to make packaging easier to reconsider open. The cost of medicines for the elderly is borne by the policy of crcs NIIS, a body which is under

The IOP's Easy Open symposium, convened to

discuss the openability issue which relates

especially to the so-called 'grey consumer',

the session, reports on the day's events.

This requires companies to

provide more explicit patient

information but Mr Scaife

asked whether this is going to

add to the confusion of the

America and Canada, where

certain selected packs are not

child resistant, why nor in

Europe? At least it would be a

first step in trying to help the

continual government pressure

to reduced costs. Innovative

packaging could therefore be

perceived as an extravagance in

Easy open packaging is

more likely to be developed by

the manufacturer of a new

Display Packing

this context, he said.

price sensitive market.

for all sizes" He then went on to talk about tamper evident and child resistant packaging and the moves by the Royal Pharmaceutical Society to lobby for child resistant closures (cres) to encompass all liquid preparations. He argued that government and those seeking a wider use of child resistant packaging should reconsider the policy of

having cres for all pack sizes. There should be a return to eustomer selection and preference, he argued. It works in

sumers about packaging is simmering below the surface and ready to boil over at the first attracted 123 delegates. Gall Lea, chairman of opportunity," Chris Griffin,

ind of Pl Design Consultants

Ethical dilemma Openability is set to boil over,

EASY OPEN REPORT

rold the symposium. This was the initial indication of consumer research commissioned by the company and presented at the seminar for the first time. Indeed, openability was the major problem consumers identified, as 90 per cent of females questioned and 72 per cent of males raised it as

a problem area. "Opening is the issue that has had the highest level of consumer dissatisfaction and has been raised with nearly all pack types," said Mr Griffin. As one male respondent in his mid 20's said: "I can't believe that I still have to struggle to get into a bag of crisps."

PI Design surveyed 100 people, although these numbers will increase as it continues. medicinal product, he said as Of those questioned, 16 per generics manufacturers have to cent had some kind of dissability, defined as arthritis at 60 per

sell their products in a very cent, 'weak wrists' or lack of A possible answer is to strength accounted for around progress the introduction of Patient Pack Dispensing, but 30 per cent and 10 per cent had problems with eyesight. under current legislation these As well as pack types such too would have to be tamper as the perennial sardine ean, evident and child resistant.

tles, cartons and cans. "In fact, dissatisfaction was across all pack types," said Mr Griffin. The presentation addressed the relationship in design terms

between the product, pack and user, and according to Mr Gtiffin, brand owners need to address the issue sooner rather than later. As well as listening to the consumer, designers must also observe the consomer in action, he argued.

easy opening options will never be communicated by asking

says consumer research result

Chils Grifflin, md of Pl Design: Opening is the Issus That has the lighest levels of consumer dissatisfaction ecross all peck types

consumers also had problems with such things as cellophane wraps, the coding of products, tamper evident closures, bot-

"The brief for delivering

the consumer," he said, "The only way is to observe the consumer from the point of purchase through to the use and nhimately, the disposal ."

"It is more likely that others will try to compromise the design during development to meet their individual objectives, thereby taking the design off the original target," he said. Asked whether PI Design were currently given openability as part of a brief, he said that although it often formed part of the initial thinking, it rarely survived to the prototype stage. not alone to the store. Pl Design Consultants -

tcl: 071-727 3226.

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initiative and enterprise,

older people are still the recip-

ients of the ideas of the young,

decline in physiological effec-

tiveness, which is an impinsic

part of growing old, and how

this manifests itself through

impaired vision, slower reae-

tion time and poot muscle

strength, as compared to capa-

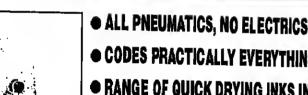
established a nationwide con-

sumer group of people aged

The Centre has therefore

Dr Laxman outlined the

he told the sympsium.



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Conical jar development

This glass, conical food jar was designed with the over-lifty consumer in mind, and the student responsible won the

Grocery

response

Jane Moore, project leader -

consumer concern programme

at the Institute of Grocery Dis-

tribution outlined the work of

this trade body in the area of

The IGD works on behalf

In June '92, the IGD pub-

whieli identified the problems

consumers experienced when

This outlined many prob-

lems including injuries, spili

products and consumers requir-

ing assistance in the opening

task. Interestingly, 48 per cent

of respondents said they would

not pay more for better pack

design as they felt it should be

part of the product on offer. If

better solutions were available.

however, they would buy these.

respondents had actually

stopped having packs that they

The IGD does recognise

the conflict between ease of

opening and safety as well as

found difficult to open.

Indeed, 18 per cent of

opening grocery packs.

Royal College of Art design competition sponsored

Rockware Glass. Caroline

Ellis, trade marketing manager at Rockware, outlined the progress to date

of this development in her paper. The jar itself, prototypes of which are available, is

ensure stability and incorporates thumb prims to aid grip, It has non, however, found its way onto supermarket shelves yet.

The Institute of Grocery Distri-

buton - tel: 0923 857141

"Fond manufacturers and retailers understand the needs of the changing marker (in terms of age) but very few have acted upon this in terms of packaging

consumers packaging that they would choose," he said. He went on to highlight the work of the Packaging

Keynote opening address Standards Council (see PN May 94, pg I and 2) and the importance his department places on it. He believes that it will prove to be a valuable channel for consumers and will play an important part in the whole issue of openability.

It will also be an effective channel of complaint about packaging, he said.

He also outlined the importance of the Producer Responsibility Industry Group and its plans for dealing with packaging waste in the UK.

"I would utge all of those involved of the need to get the right balance between all of the demands made on packag-

THE TEA-CARTON! THE MEDICINE! THE CHOCOLATE BOX THE CARTO-THE BANDING THE SHRINK-STRETCH MACHINE! WRAPPER! Contact us for more Contact us for more Contact us for more Spiles II K. I td. Un't I i Ardgien Indon's II I state Winschund, 2018 788 Hampdore Uniwal Mingdom **#sollas** sollas **TELEPHONE 0256 896930**

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Easy open cartons give better options

"The milk carton is synanymons with 'difficult' to open packages, being rated second nverall by the IGD's research (see pg 34) and only pipped to the number one spot of ignominy by the sardine can," said James Bryant, marketing manager - dairy of Terra Pak.

But, some milk eartons can now be opened by both the aged and people with disabilities, he said, following the recent launches of 'easy open' options from the company such as Tetra Top.

Tetra Recap juice cartons have also been successfully

ConsultABLE (see facing) , which specialises in testing products on groups of disabled people. In its research, ten out of twelve users preferred the ReCap over a Tetra Brik with perforations and to a bottle.

As these results demonstrate, some packages in nur portfolio have proved successful in research, hut this is noly the beginning, he said. These packs and new ones will be ileveloped to enable further improvement in opening and closing performance and importantly, minimise cost.

What is also required is the encouragement of companies

that are prepared to invest to

make the IGD objectives

attainable, he said. The retailers must be spurred on by the

Tetra Pak - tel: 0895 868000

research. We can therefore help you to produce designs for the market of the future." She talked of the burgeon-

ing older population as a berrative market, as the people in this group have benefited from legacies and personal pension plans and they no longer have mortgages or dependents. "We're not asking you to make your products especially for disabled people," she said, "just to consider their needs in

vom design. "Most elderly and disabled throw the problems into sharper focus," she said.

Shopping bagged under checkout counter people have the same problem opening packaging as we all A system for beneath-thecounter carrier bag loading have but their disabilities which takes the task away from the consumer is being used as Consultable - tel: 081-6820518 one of the checkout options in three Safeway stores.



Europeen brande are extending the use of metel ceps into delay

Closure developments

Nick White, merketing meneger of Carneud Melelbox Closures pic outlined the many dillerent technical options being researched to make the gless jer/metel closure combination en easier open option for concumers. The company supplies over 80 per cent of the UK requirement tor metal twist end PT closures tor the lood Industry and hee been working on detelled testing of a number of variebles with a UK retailer to look into the issues raised. CMB Closures plc - tel: 0202 674321.

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agency with a slight difference, all of its consultants have a disability and it was this agency that Tetra Pak commissioned to help research its latest packs. Julie McLeod outlined the

benefits of using the company in terms of its user groups, which are specifically tailored to appraise individual produets. "We select a group of people whose disabilities challenge the ergonomics of your product," she said, "and then analyse the findings which can be acted upon without further



highly reflective self-adhesive label material barcodes can increase the scanning distances of long-range scanners is now available in the UK from 3M, known as

Scotchmark 3929. 3M tells PN that the disunce depends on the ambient lighting and the scanner and

beam of the scanner with supeance of the scanner we can rior brilliance, 3M (3M House, PO Box 1, Marker Place, Brackmeet and extend it." In tests nell, Berks RG12 IJU - tel: 0344 the label has been read up to 30 858000, fax: 858195) tells PN. feet away, most labels can only

adds barcode scan power

Reflective label material

material is in use there. The key to its effectiveness is the retro-reflective material used in the feedstock, which is the same as that used in road signs. When used on a barcode

Integrated into the eheck-

out, the Check-a-Bag system

from Linpac Machinery Ser-

vices operates beneath twin

trapdoors easily within reach

of the eashier. After each item

be read up to several feet away.

Developed in America, the

In addition, the labels are

Facestock is top coated 10 accept resin-based thermal transfer printing, which means that varying quantities of labels can be easily produced as and when required. Sentehmark 3929 labels will it is claimed improve warehousing opera-

has been weighed or scanned it

is placed in the bag, which is

pulled from the reel and auto-

matically opened by jaws

Each of the twin checkouts

at Safeway has two apertures,

allowing operators to switch from one to the other and not

stop between bags or when

are conveyed to the back of the

"A number of bagging sys-

tems have been developed, but

trials showed it was impossible

for operators to maintain high

standards of performance with

them," says Tony Watt, man-

agement services director at

Safeway. He adds that the

retailer felt standards could be

checkout for the customer.

under the counter.

bringing hetter space use.

also backed with a strong adhesive which will bond 10 most substrates, including metal, wood and cardboard The durability of the facestock allows images to remain readable longer than traditional barcodes, according to rhe company.

tearing then get your honds an a 'Hot slot' bog ond give it o Thanks to our unique couterisotion process our hale will take more tugging with no teor-

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one reel runs out. Packed bags

Check-A-Reg unit supplied by Linpec to Seteway, Reading

met with the Linpac system.

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cashiers' hands are never caught in the trapdoor. The original system was bigger, noisier and more costly, says Safeway. The improved system operates in stores in Reading, Stirling and Petts Wood, Kent.

Nine or ten a bag

"Every bag that leaves those checkouts is full of product. Rather than the previous average of four or five items, you are getting nine or ten in a bag," says Brian Hatl, md of Linpac Machinery Services (Otterspool Way, Watford, Herts WD2 8LD - tel: 0923 233676, fax: 256007).

Consumers most likely to use and benefit from the system are the elderly, disabled and mothers with children, Safeway believes. Manual packing hy store staff is expected to be maintained as an option, even where Check-a-Bag is offered. The retailer stresses that the proportion of checkouts with the system will vary from new store to store, depending on the expected

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Latest additions to the corrugated spectrum and the levelling of the playing field for virgin and recycled cartorboard are among the areas included in our special focus on paper and board. On these pages we explore the new markets for speciality papers end, opposite, Pro Carton's strategles for sprucing up the image of cartonboard.



Once upon a time...

But it was no ordinary flute: it was the finest flute ever known in the whole land and it was music to the ears of all who heard of it.

It was a strong flute, a very beautiful flute and it led the way everywhere it went

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This maker also made a whole orchestra of other flutes, each one tuned to a different but precise tone from 'B' through to 'F' and each one gathered a huge following wherever it went.

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No wonder everyone came to know the name of the maker because where he went, everyone else followed. And everyone who bought from him lived happily ever after.



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peciality papers are making inroads at the top end of the packaging market, where image is all important for luxury goods, Simultaneously they are re-entering the market for products such as sausages and sweets which moved from paper to plastics

Cost is cited as the main reason for this, but equally environmental, quality and presentational concerns are strong drivers.

Specialities' Sappi Keysham mill is now producing twist wrap waxed papers for the pharmacentical and confectionery markets after a long layoff period.

Only two mills in Europe eurrently make twist wrap papers since they were all driven out of business by the switch to plastics. But the tide seems to be turning, and over the last two years twist wrap papers have achieved around 45 per cent market penetration both in the UK and Northern

Marika Graham, European commercial development manager at Sappi Specialities tells PN that the success of the twist wrap papers "has been due to production savings of 30 per cent for companies switching to paper, with no major tooling or machinery costs, as the paper runs on their existing

Equally, Bob Hughes, general sales manager at Carrongrove Paperboard Mill, Inveresk ple, tells PN that the move from pp boxes for video tapes into a speciality paperboard pack was price driven.

Quality and environmental concerns are behind Safeway supermarket's decision to shortly "provide paper bags for mushrooms and some other fresh produce since it keeps the vegetables fresher for longer", a spokeswoman for Safeway informs PN.

The strength of any speeiality paper lies in its ability to identify its niehe and respond to some technical difficulty. For Sappi it was the different waxing techniques used: in-line or dip-waxing which affects the paper's performance and behaviour. The company also overcame fears associated with using waxes in contact with food. These are now food grade approved.

By experimenting with pulps and waxes Sappi (tel: 0865 516011) says it has learnt to keep the moisture in the wrapper when dip-waxing. This is achieved by pre-treating the paper so that the paper does not lose its twist and staywrapped qualities.

Different types of twist paper have been developed -Unicote twist wrap which accepts metallie inks and is used generally for confeetionery, and Albos twist wrap which is used for tablet sweets, and lozenges.

"Problems with leaky tuffees were overcome by dropping the sweets in the aqueous wax, which then liquidises quickly around the sweet and. as the machine twists at point of hold, it holds the sweet



carried out last year on behalf

of the association into the ear-

ton's image, and presented at

the PN/lggesund environmen-

tal seminar IPN November

193). This found that of the

four principal types of material

plastics enjoyed the most

dynamic image as a pack mate-

nal and the most positive envi-

ronmental profile, with

cartonboard second followed

the devicemental Correct

Some awareness of drive to reduce

· Cartons longstanding, unchanging

ing Pro Carton, according to

research, is the tendency of

consumers to take the material

for granted, "Cartons work so

well that people don't even

notice them. When things do

their job that well they may

indeed leave the impression of

being dull and uninteresting,"

explains newly elected chair-

Contact with and feedback

man Richard Dalgleish.

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Summary

One of the challenges fac-

by glass and metal.

Low level of interest

Accepted unquestioned

Plastics the most dynamic

fixed. Toffees can now be packed in bulk and sold to horter climates because they won't leak," Ms Graham tells PN.

Mr Hughes of Carrongrove (tel: 0324 823)2n says that the Gentini range of papers usually eaters for the luxury end of the market his however also used in product as diverse as mousse poste pharmaceutical casings, to video cassette holders.

The shift towards paperboard packaging for video cassettes has primarily been driven by cast. However, in order to use a board the problem arose of maintaining a clean environment and so not contaminating the video cassettes themselves.

Gennini C2-S is coated or both sides and cuts cleanly therefore it does not shed dust and debris. On a heavy grammage, the coating seals in the fibre on both sides so that it does not contaminate the age, says the company.

Gemini comes either single

"Papers now developed for soaps"

or double coated on both sides and goes up to 500g. In addition, Gemini Embossed is a range of 16 patients, 160gsm to 500gsm with an emboss on one side and smooth on the other side of the board. It can be used for cosmetic promotions.

Currently, Inveresk is developing Gemini Mould Inhihitor Treated Board, for snap products. Although Mr Hughes admits that the production of Gemini has been upgraded to a pnint that it is almost too good for packaging, this same high quality is what is demanded by customers for

Mr Hughes says Inveresk tries to halance bulk, rigidity and smoothness. The company continues to work on smoothness as cleaner surfaces ate demanded by customers.

Inveresk achieves smoothness through the chemistry in the board. Other manufactorers roll the hoard harder so that the fibres cannot be seen, while Tullis Russell Ltd tells PN it dnes it through a special offmachine coating system which it has developed.

"We get good levels of smoothness plus a very glossy surface. Our product has a 60 rating on a 75degs gloss level. explains John Quinn, market-ing manager at Tullis Russell (tel: 05/12 753311).

The company is trying to penetrate the market with rwn niain products for packaging: Trucard, a solid bleached board coated on one or both sides and Lustrulus, a cast-coated bnard which gives an extremely glossy print surface.

PAPER AND BOARD

Cartons boosted by consumer contacts

from consumers is to be a lead- ditional version. An example of Recognition of a fund of gooding feature of Pro Carton's will on the part of consumers policies as a direct result of the mwards the carton, and buildsurvey's findings. A presence is ing on that goodwill while not planned at two major contaking it for granted are both sumer shows this year: the now key to the strategy of Pro National Federation of Carton UK, which is part of Women's Institutes Exhibition the Association of European in June and the BBC Food and Cartonboard and Carton Man-Drink Exhibition in November, both at the NEC. Consumer research was

These shows should bring the association into contact with a wide cross section of consumers and will constitute an opportunity to hear the views of those who, in the end, each pack has to impress.

Displays will put across a message about cartonboard's pedigree, the recycling infrastructure, its versatility and will quite simply aim to make the shopping public aware of the carton and its function. The

two exhibitions will be its largest commitment to date in a single year, says the association (3, The Plain, Thornbury, Bristol BS12 2AG - tel: 0454 419505, fax: 0454 413421).

The historical perspective is one which will be made much of in the presentation to consumers, with examples of older and contemporary cartons. "If you

show what carton X looked like then and what it looks like now, you can illustrate the advances made in design," says Mr Dalgleish.

Also to be addressed by Pro Carton are the specifiers. When practical improvements to a pack are available, the association will be interested to know why packers and retailers choose to stay with the tra-

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Adhesive applicators

this is the siftproof carton for sugar, which does away with the inner bag and has a conveniem pouring spout. While this has caught on in France, it has

industry, says Mr Dalgleish. Pro Carton's research, carried out by HPI, showed that consumers attached far more importance to the functionality of a pack than its environmental credentials. But the association will nonetheless be spelling out its environmental message. "Carton waste has a much better chance of realising its value than a lot of other packaging," says Mr Dalgleish,

not been taken up by the UK

As demonstrated by the composition of the newly elected committee, which includes just one equipment supplier, the association is dominated by board and carton producers. One of Pro Carton's aims will be to broaden this base and bring into the membership more of the ink, machinery and equipment suppliers with interests in the carton industry. This will fit in as part of a drive to double Pro-Carton's membership over the



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Imaginative uses of virgin and recycled

When Quaker made what at the time was billed as the biggesi change to cereal packaging for decades (see PN March '94) with the launch of its two products Feast of Flakes and Wholegrain Feast, the company specified what is clearly a board with a large recycled content.

Not only did Quaker choose not to abandon the tradition which associates cereal cartons with recycled board, but the oval pack demonstrated that the mix of shorter and longer fibres could give the technical characteristics such as combined flexibility and strength that were required.

According to manufacturers of recycled board, the same performance would have been possible from virgin. But even

INSTANT OPTIONS

complaints from consumers about opening and closing the pack, it does show that recycled board can be used just as imaginatively and effectively in terms of shelf impact.

Cercals and tissues are two sectors which have traditionalused recycled board. Because cereals need to be scaled in an inner bag for erispPaul Gander looks et the merits of recycled board versus those of end the reasons why some certon manufacturers still prefer virgin

ness, this is one area where there is little option of using lined virgin eartons and elimi-

Even in areas such as frozen food, where board strength and moisture resistance have been central to any specification, recycled fibre is making inroads into the markei. Robinson Carton Packaging, where the Quaker Carrons are produced, says that it is using increasing quantities of Fiskeby Frost for its customers' frozen products.

There have been, according to Robinson, a number of reasons for this shift. Even if customers have not to date seen a significant commercial advantage from using the hard sized

become available, non-virgin

mental reasons, they will not do so il there is any price prerecycled boards which have



Cartons produced by Robinson Carton Packaging for Queker

has been given a second opportunity to increase its share of the marker since more and more food is pre-frozen prior to packaging, says Robinson (0246 220022). This means that the same moisture resistance is not required from the board.

So far, says recycled board manufacturer Fiskeby (0296 26219), the use of non-hard sized recycled board for frozen foods is widespread in Germany and other mainland European countries, but is not increasing in the UK. Meanwhile, the volume of Fiskely's own Frast board has risen in the two years of its presence in the UK to several thousand tonnes.

According to Iggesund, brands putting greatest emphasis on presentation or requiring better strength guarantees tend to specify virgin board. Those in the industry insist that though retailers and carton manufacturers will specify

teristics and quality are required to support a brand, its own experience suggests that virgin fibre still tends to be used, says Iggesund Paperboard (0908 640123).

Figures from CDC Ltd put the proportion of UK carton consumption in food packaging at fel per cent. In this sector, 71 per cent of board used is virgin fibre, 61 per cent in perfumes, cusmetics and toiletries, 72 per cent in pharmacenticals and virtually 100 per cent in the tobacco industry. where control of taint and odonr is vital.

Carol Hammond of the Field Group has raised the issue of the stiffness/weight ratio with virgin and recycled fibre (PN-lggesund Seminar report, PN Nov '93), and estimated that users face a 10 to 20 per cent grammage increase Continued on page 43

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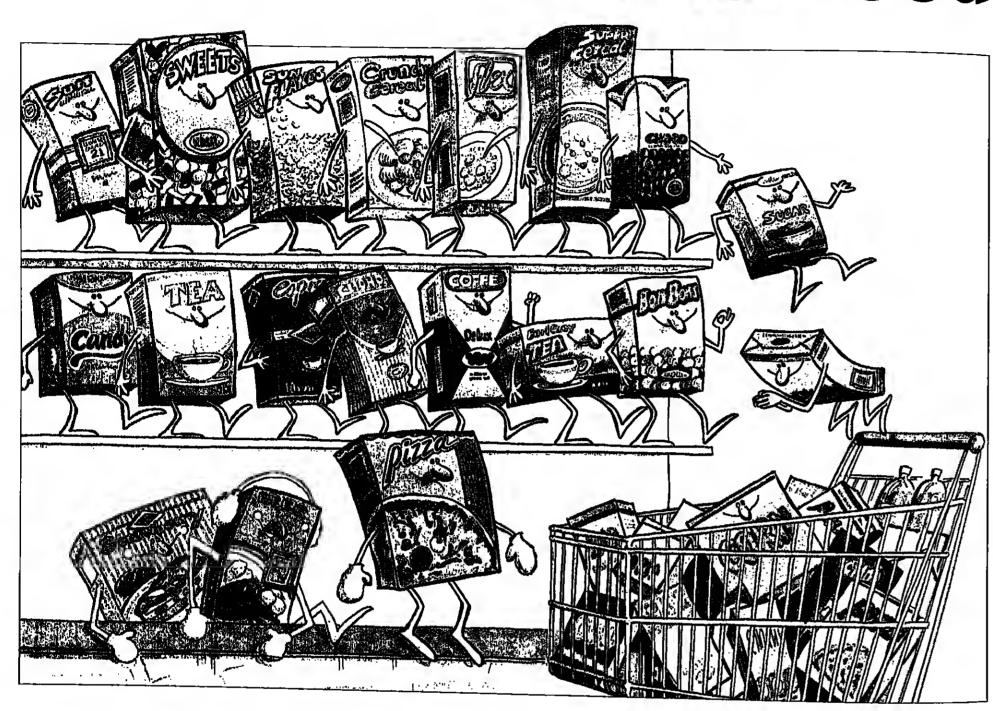




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Leaders in Plastics Containers

Fiskeby recycled board for food



Fiskeby Board produces board from recycled fibres, with the brand name Multiboard. The Mill can offer a broad range of qualities, including Barrier Grades from the Mills PE extruder: Fiskeby Board, located in Sweden, is a part of Riverwood International, one of the worlds leading producers of packaging



MULTIBOARD Fiskeby Board AB

Fiskeby Board Ltd, Suite 8, Lloyd Berkeley Place, Pebble Lane, Aylesbury Bucks Tel. 0296-26219, Fax 0296-82682

Fiskeby offers a recycled approach to packaging food products. The Multiboard range of 100% recycled Whitelined Chipboard grades is already being used in a wide range of food cartons, including Breakfast Food, Tea, Coffee, Sugar, Frozen and Chilled Foods, Confectionery and many others. All have gained from switching to Fiskeby.

Fiskeby Multiboard combines high quality with low environmental impact. All paper and board comes from a natural and renewable resource. But the Multiboard range is based on first generation recycled fibres, giving strength and consistency for good printability and runnability on filling lines.

Try Fiskeby, Try Multiboard!

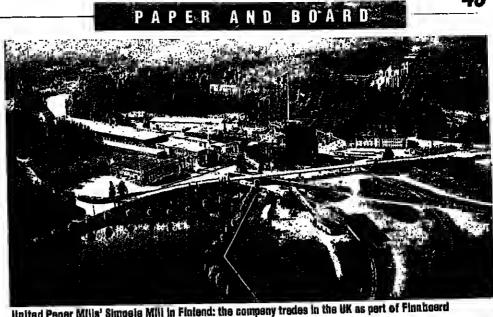
when switching from virgin board to recycled. This and other considerations such as the more critical role of quality control should be taken into account by any user changing board types.

Iggesund for its part puts rhis differential at 25 per cent and highlights the paradox that the paper and board industry in the UK uses 60 per cent recycled fibre in its production while recycled cartons inevitably require imported material. The company makes the point that while this may help the waste paper problems of other coun-tries it does nothing to recover value from UK waste.

But while the UK industry as a whole is a keen user of recycled fibre, the share taken by board for cartons is far lower at around 35 per cent than the European average of 60 per cent. Producers of recycled board see this as an indication of the scope for further increases.

Alastair Thomson, commercial director at Jowetts Ltd (0532 795041), agrees with Iggesund's view that brands concerned with runnability and high quality print still tend to opt for virgin fibreboard. Some users, given the environmental acceptability of reduced packaging and the possible cost savings involved, are moving into coated virgin fibre eartons and dispensing of inner bags, he says. Guaranteeing the consis-

tent quality of cartonboard of whatever type has never been easy, but newer grades of virgin board especially are giving earton converters the results they want. Robinson, for example, reports a nil complaints record for cartons produced over the past 18 months using Simcote, a coated folding boxboard from United Paper Mills, trading in the UK as part



ments. Migration from the ink content of chipboard is the greatest risk, says Brian Riding, sales and marketing manager at the company (0937 842061).

In many ways, carron producers see the selection criteria for the two broad types of fibre converging, both in terms of price and quality. Whereas in the late 1980s users saw a steep rise in the price of virgin fibre based folding boxboard - with three price rises in just a year prices have been much eloser for the past two years or so.

Meanwhile, the range of options available with recycled board has grown and, according to carton manufacturers, the higher quality recycled boards are approaching the performance levels of virgin cartonboard with vast improvements in print quality, too. Many eartonmakers have invested in equipment for con-verting recycled board, and so are more likely to keep using it.

lowetts believes that it is now much easier for users to make informed material choices, "People are actually lnoking at what works for them, rather than just being bowled along on the environmental bandwagon," says Mr Thomson. Fiskeby sees the 'virgin v recycled' debate as potentially damaging the market as a whole.

"I believe that this debate detracts from what should be our main objective - to promore the advantages of cartons and eartonboards generally. All cartons come from a renewable and natural raw material resource," emphasise

board stress the variety of grades available, given the number of types of waste paper taken as the raw material: pnmted, unprinted, pre- and postconsumer. It is, they make clear, an oversimplification to talk about a single consistent gmde.

As regards food hygiene,

producers say that the issues of mould and heavy metal content in recycled board can be tackled by good hoard making methods and the use of month inhibitors. Many foods, says Fiskeby, have a higher content of heavy metals than the buard they are packed in [

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Virgin beerd certone, seld to be at the forefront of brend strategy Sune Petterson, md of Fiskeby

Board AB. "In our experience, the choice of board often comes down to the application in question. We would not pack confectionery into greyback chipboard or spark plugs into solid bleach sulphate board. It's a question of horses for courses," explains Robinson Cartons and John Wood.

Producers of recycled

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of Finnboard (0628 411611).

Stora Billerud Newton

Kyme Ltd supplies almost

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although its Newton Rose

grade includes elean board

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PAPER AND BOARD Demands for greater versatility and lighter mater

als continue to beset the corrugated sector. Here Camila Reed looks at some of the corrugated products which offer multi-colour opportunities and contribute to the combined transit/retail role of this sector of the Industry.

Sector picks up

the years, investment in the corrugated sector now seems to be picking up. The Paper Federation estimates that capacity in the corrugated sector will rise above the levels achieved in 1992 and 1993 when a number of closures were announced and there was an oversupply of materials throughous Europe.

In April, Smurfit Corrugated Cases announced it would be investing £16 million in its plant at Lurgan over the year. "We will be increasing capacity significantly at Lurgan as part of a plan to meet anticipated growth in the Irish market over the next three years," said Joe Ryan, chief executive of Smurfit Corrugated Cases.

The corrugated sector has embraced the environmental challenge mainly because the use of lighter and less materials is being demanded more and more by designers and customers. The amount of board used in the average cardboard box is now 15 per cent less than it was five years ago. John Wooton vice chair

F-flute

goes for

cartons

Improvements to NorFlute,

the F-flute board produced by

Norwich Corrugated Board

(NCB), have resulted in the

gauge being further reduced 10

an average 900 -1000 microns

enabling the flute 10 be litho as

When NorFlute was ini-

tially launched in the UK (see

PN - Dec 1993) the average

thickness of the gauge was

"NorFlute is so thin it

allows the converter 10 use

standard litho technology.

Tests have given excellent reg-

istration and colour reproduc-

tion", says Jeff Hare sales

"The litho presses have to

cope with tolerances of up to

1000 microns," Mr Hare tells

PN: "Our tests were earried

out on standard presses operat-

ing at this thickness and all the

printers who have been work-

ing with us during this devel-

opment process have reported

that running NorFlute is no

different to running earton-

The company (Fishergate,

Norwich NR3 1SJ - tel: 0603

660041, fax: 761286) is still

exploring NorFlute's potential.
"The ability to print directly in

four colour litho makes Nor-

board of a similar thickness."

director at NCB.

from 1200 to 1400 microns.

well as flexo printed.

man of the British Fibreboard Packaging Association says, "We've steadily increased the speed of our enstomers' packaging lines and we've redesigned our products to gain maximum strength from minimum paper content."

Certainly the move among a number of products towards decorated single piece corngated packs has continued, and multi-colour quality graphics which contribute to the retail/display role are given more and more emphasis.

In-store savings

company to use a free-standing Pal-Box Display unit for the lanneh of its special offer Twinpack in Asda stores, Benefits of the display pack include: increased shelf space in store; less packag-

reliance on pallets. To maximise consumer impact, Homepride is supplying the Twinpacks pre-stacked in the ready-tomerchandise Pal-Boxes, which are

produced by David S Smith Corrugated at Elv. Custom made, the Pal-Box

be used for the pack. "Boxes are tailormade"

"The boxes can be sailor-

explains Mr Wooding. High density ps bearers are

and is starting to develop into the food industry. The main disadvantage of the Pal-Box is it requires a lot of space at the end of a line For further K6 Call for details information 134 0839 77229

the base over wood is that it is light and does not splinter, which means it can be used

safely in supermarkets," says

Pal-Box has been designed

with a removable front panel.

which when removed and

inverted, is fixed to the back to

stacking, there are significant

labour cost savings. Although

Pal-Box may be equivalent to

around 30 cases is does have

Adelaide, Elv. Cambridgeshire

CB7 4TZ - tel: 0353 663355,

fax: 666900) says it is now tar-

geting supermarkets, diy stores

The company (Queen

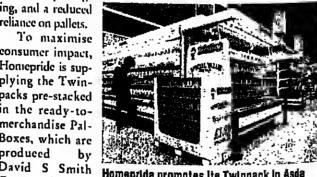
some on-custs.

For Homepride, the 400 jas

dismantled, the ps bearers are

taken our and the box is flat-

tened. "One advantage of ps in



Homeprida promotes ite Twinpack in Asda

Mr Wooding.

is usually produced from doublewall corrugated. But Reg Wooding an area sales manager at David S Smith tells PN that a variety of flutes ranging from a heavyweight double to a single wall corrugated BA flute can

made to a customers production requirements or we can make it fit the logistics of the stores, by using extra buffers in the Pal-Box where the product does not fill it completely,"

inserted into preformed sleeves on the base which form a pallet and are self-locking. This allows it to be erected from the flat in 30 seconds and eliminates the need to stitch, tape and/or glue.

In terms of cost, the company says that Pal-Box is similar to that of a pallet inaded with conventional outer packs, and because it eliminates shelf

> Cedbury's Milk Trey Chooolates have been releunched in e corrugeted fibreboerd tranelt/dieplay pack, supplied by SCA Peckeging Ltd.

Both the tray and the outer

is produced from B-flute to give atrength end protection, which is essential during dietribution, SCA (Pecket Boat House, Pecket Boat Lene, Cowley, Uxbridge, Middlesex UB6 2JP - tal: 0985 445533, tex:

E-fluta board, incorporating a flexo pre-printed linar was used for the trey, to creeta e neat point of sale unit.

PAPER AND BOARD

the F-flute board from Norwich Corrugeted Board meane thore la now potential for ite usa ea e primery peckaging material In areas currently using cartonboard



Call on 0839 772268 or circle number (K6465

primary packaging in areas now using carronboard, claims Mr Hare.

"Perhaps even more exciting is the potential in areas now using foam packaging, where NorFlute can offer similar insulation, weight and strength characteristics with the added bonus of dynamic four colour images and graphics," he explains.

NCB says it has not reduced the thickness of the board further since people are a bit wary of the newness of Fflute. There is also some scepiseism over whether its strength and rigidity can be

Generally cartonboard goes up to 1000 microns thickness. There is an overlap in eertain markets. However, the inablity to emboss microflute means that it cannot be used for some luxury packaging.



Flutings for Milk 'trays'

It comprises an E-tiuta tray plus a B-tlute outer eleave. At point of sala, the outer le simply temoved ravealing a viewal on-the-shelf dieplay unit.

are printed with etriking grephice ocardineted with those on the boxes of chocolates to provide instant brand identity end sales eppeel.

PACKAGING NEWS/JUNE 1994

The outer cleave, which is poet printed in three colours, 422305) talia Packaging Naws.

GREAT MYTHS OF OUR TIME ...Only Kraftliner has excellent printability St.Regis Kraftliner Testliner 2 SI GEGIS Corrugated Paper Sales, Mill Lane, Taplow, Maidenhead, Berlishtre SLGOAP Telephone 0628 798 [11 : Fax 0628 770946]

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PACKAGING NEWS/JUNE 1994

available in short runs with or without hanging slots from Trenton 8ox. One version of the pouch-shaped carton was produced for Mencheeter United, designed to hold 115g of chocolete in the form ot fall-covared tootbelte. According to Tranton (Merston Roed, Si Neots, Hunlingdon, Cembs PE19 2HF - tal: 0480 473693, fax: 408225), the banetite of in-store visibility can be extended to any sort of promotion. With a Euroelot, the rotalier also has the choice ot a hanging or free-etending display. Trenton says it can manage completa promotions.

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PACKAGING NEWS

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PAPER AND BOARD

Tearstrip enables muesli reclosure

A tearstrip and rescalable lip system is incorporated in earions converted by Marchmont Packaging Ltd for Irish Cereals

The tearstrip, which also gives tamper evidence to the pack, allows for reclosure by splitting the boards and leaving clean edges, says Marchinont (Cloverhill Industrial Park, Chondalkin, Dublin 22, Irish Republic - tel: 010 353 1 457 0126, fax: 353 1 457 1975).

Six colours are used in printing the 500 micron hard nish are used on a Heidelberg CD Speedmaster press.

Produced by German company Marbach, the tear system is supplied in the UK by Arden Dies (Shepley Lane Industrial Estate, Hawk Green, Marple, Stockport, Cheshire SK6 7JW - 1el: 061-449 0421, fax: 061-449 0497).

New on the Irish market, the muesli is a premium product and Irish Cereals needed a quality pack to back up this product positioning.



pulp le baing oeed in the production of Avery's range of lager labels. Whiteness in the paper is achieved by the use of hydrogen percalde, with no loss in print quality, says Avery (0828 39911).

(WO EXTRACTION eyeleme have Blvac (0705 584291).

ars, printere end production statl. Tha menuel completes ntormetion guide, evelishe from Mark Kirwan at the company (0908 640123).



irieh Caraale muaeil: taarstrip

end resasieble lip system

MARCHMONT PACKARING:

Improved surface coating is offered on Dualcote twin-sided recycled board from Robert Home's carton division.

Suitable for litho, letterpress and screen printing, Dualeore can be machine or uv varnished, emulsion scaled, hot foil blocked or film laminated.

The improved board has high rigidity, good opacity and an average of 13g per square metre matt coating. According to Robert Horne (Huntsman House, Mansion Close, Moulion Park, Northants NN3 ILA - tel: 0604 495333, fax: 491909), the board is suited to applications where matching print quality is required on both sides of the board.

Recycled fibre makes up 75 per cent of the board.



baen fittad by J&J Mekin Convarting, Rochdele to Improve product quelity on lie leminating and cutting mechines. The systems ware supplied by 840

COMPARATIVE RUS performance in meti costed peper is the aubject of a eludy from Pira Internetional's technical Investigations group. Senchmerk standerds were created to grade tha 38 pepere teeled Into thraa layele of link rub. Partormenca continues to Improve, but there wee verietione emong recycled gredes, aeys Pira (0372 376181).

Introduced IIs Paperboard Ref erence Menuel for the use of peckaging end grephic designggesund'a Paperboerd Anchor

RED ROSE FC (fully coeted) hes bean launched by Store Billerud Nawton Kyme Ltd as e parrier-trae tad alternetive to ps-costad boards. Attributes nclude good printebility, says tha company (0937 942061).

Smith Anderson is a progressive British paper manufacturer at the leading edge of point of sale packaging, producing over 74 million paper and polythene bags every week. Based in Scotland with four production plants they supply retail multiples with high quality bags which complement their customer's corporate identity.

Low density polythene bags are made in a range of styles from pure polythene, giving a superb quality product with a high gloss finish and excellent printability. For companies with an environmental interest who wish to provide bags with a recycled content, they can do so by specifying Reprothene, Smith Anderson's w-extruded polythene film. Reprotheneuses up to 70% waste which is sandwiched between layers of pure polythene, thereby retaining printability and hygienic qualities.

High density bags are available in many types, including bag-on-the-roll, blockhead or vest handle styles and provide retailers with an economical and versatile means of providing easier customer self selection at the point of sale.

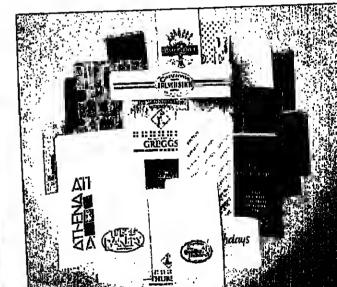
£80,000 worth of computer aided graphic sequip-The company's continuing policy of investment in their Reprographics Department further ment in technology enables them to respond improves Smith Anderson's customer service quickly to market trends. For example, the recent purchase of a £60,000 photo polymer plant and capabilities.

ADVERTISEMENT FEATURE

PAPER BAGS THAT STAND UP FOR THEMSELVES



Self opening satchels, or SOS bags, are marketed under the "Treesaver" brand name, manufactured from 100% post consumer waste. These bags are extremely popular in the fast food industry, where market leaders McDonalds and Burger King both use Smith Anderson products. The durability of the bags and the quality of reprographics available ensures that both Smith Anderson and their customers stand out from the crowd. Here again, there has been significant recent investment, particularly in high quality printing equipment.



SWEET FUTURE IN STORE

British Sugar is one notable customer who convert Smith Anderson paper into bags. Smith Anderson supply 50% of all pharmaceutical bags and 25% of all bakery bags in the UK, whilst their Eagle envelopes subsidiary converts their paper into almost 1 billion envelopes a year.

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dence is available for the top says Chapman (The Embank-

and bottom flaps of cartons ment, Wellingborough,

using the TamperView label Northants, NN8 1LJ - tel:

Red indicator labels can be for further K6 Call for details 122 6838 77228

system from Bowater company, 0933 276911, fax: 440043).

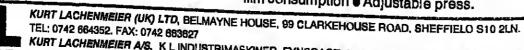


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printer to incorporate a range

The press has been

crease machine.

of extra features.

CONVERM



The Model 1000 Bexmaker: higher speeds end extended renge

Corrugated boxmaker is a speedy operator

An automatic corrugated box maker with extended range, higher speeds and quicker set, Model 1000 Boxmaker has been developed by Antobox Ltd, the UK corrugated box-

More materials have now been

added to Adhesive & Display

resistance and help avoid static

build up which can cause trans-

making systems manufacturer. Designed to supersede the Model 810A Boxmaker, it is 60 per cent faster and has a 20 per

cent bigger range. The all British Model 1000 cast make boxes from 50mm cube up to any length, 1000mm wide and 1100mm deep.

There are around 20 styles built into the keypad computer mounted on the console, Peter Thomson of Autobox (Unit Cherrycourt Way, Leighton Buzzard, Beds LU7 8PZ - tel: 0525 379359, fax: 0525 382353) tells CW.

Speeds of about 350 boxes an hour are possible and it takes 20 seconds to set up any size, style or grade with no tool or changeparts needed, adds Mr Thomson.

an hour a possibility.

Flexible converting line

Leonard Cohen, president

of Canadian Technical Tape.

worldwide to have installed the

complete line, tells Converting

081-813 6244) tells CW.

line comprising slitting, winding, cutting and rewinding facilities for tapes, which is integrated with a packaging line, has been developed hy Italian converting machinery maker, CMC Cevenini srl, and Italian

paekaging company Berretti.

The converting line can be used for processing kraft, masking tape, fibre glass reinforced tape, pp. pvc, pe and similar adhesive materials.

Starting with jumbo materials the converting finishes with a slitted roll. As the slit width is pre-selected small and medium sized orders are possible. Narrow widths down to 3mm are achievable. Carlo Cevenini president of CMC (UK office, 13 Hayes Metro Centre, Springfield Road, Hayes, Middlesex UB4

bility of widths that some of the other equipment doesn't base that was the major reason for installing the line."

Currently, only the Japanese have a similar integrated convening and packaging line.

The winding section includes CMC's latest automatic logging machine, the RA82, and an unloading and loading robot and automaic core hopper. Cutting operations

are complete by the fully automatic log-sliner SA92/5, which can cut at speeds of 5000

been supplied commercially to rulls an hour. This key users in the industry who makes use of the have verified the benefits high log production obtained for case and earton capacity of the RA82, which scaling, tray forming and pack converts the same logs into forming as well as sealing cut rolls to be conveyed nonoperations. stop onto the packaging line.

Members

of council elected

Picon, which represents 180 companies supplying the printing, publishing, pulp and papermaking and converting industries, has re-elected Alison Bye of Amieus Systems, Martin Olive of Charles Openshaw & Sons and Mar-

to its council. Five other people were elected to the council during the AGM, with Martin Olive the

current chairman and president of Ipex 98, and Martin Waters of Reiss Engineering as the chairman of Picon's pulp, paper and converting divisional executive. Further information about

Picon activities is available from Queens House, 55 Lincoln's Inn Fields, London WC2A 3LJ - tel: 071-831 3303, fax: 071-831 6029.

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PACKAGING NEWS/JUNE 1994

Sheet extruding capability

need," says md Harry Reed. Penlea's first OMV

machine, the D100 extruder guarantees maximum uniformity of sheet quality and thickness, says UK agents Engelmann and Buckham Machinery (Buckham House, Lenten Street, Alton, Hants GU34 1HH - tel: 0420 82421, fax: 89193). The line can handle both polystyrene and polypropylene.

The quality of sheet is said own sheet for the first time. to be guaranteed by the LD Purchased as part of an ratio of 35 to 1 which allows the material to dwell longer in the extruder. A special serew design is also said to allow for better mixing in the barrel.

Barrels are electronically heated and water cooled, temperature regulation of the zones being controlled by the thermocouples located in the centre

"We see prime benefits in

much improved stability and

lack of degredation," says Julie

Birch, European Technical

Coordination, Packaging at

National (Galvin Road,

Slough, Berks SL1 4DF - tel:

the low temperature which

range between 100 and 140deg

C, are said to be reduced energy

costs, a safer application envi-

tin Rickards of Komori UK

Key benefits gained from

0753 533494, fax: 539338).

D100 extruder: maximum uniformity of sheet quetity and thickness

of each zone. A static mixer also ensures a continuous and homogeneous flow between

The dies themselves allow for a micrometric-fine adjustment of sheet thickness from 0.25 to 2.2mm.

Low temperature hot mel

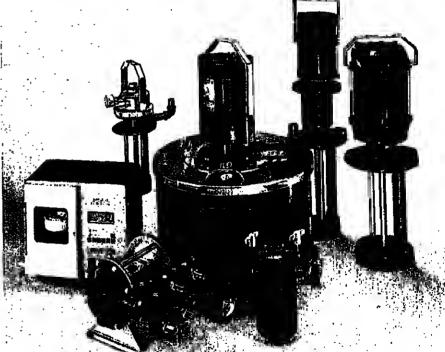
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PLEXU ST CMF MIRAGE 808, 8 COL, 1450 MM, 1989 VK, 434, 47', 36" TURRETS, 1978 W&H 736 SM, 8 COL, 1320 MM, 1977 PADANE STRATOS, 8 COL, 1850 MM, 1979/80 FISCHER & KRECKE 12DF, 4 COL, 1050

HISCHER'S NEVER 1280 MM, 1962
BRELLONI, 6 COL, 1280 MM, 1962
MAP GALAXY, 6 COL, 1450 MM, 1984
UTECO TOPAZ, 8 COL, 1650 MM WEB,
ROBOT LOADINO, 1981
CMF MIRAGE, 6 COL, 1450 MM WEB, 1984
F 8 N 32 DF, 8 COL, 1500 MM WEB, 1980
STRACHAN 8 HENSHAW, 4 COL, 1170 MM
WEB, 1978

FLEXO STACK CARPARO, 4 COL IN 8 COL FRAME, 1270 FILEXO STACK
CARRARO, 4 COL IN 8 COL FRAME, 1270
MM, 1977
CARRARO, 8 COL, 52' (1320 MM),
REVERSE PRINT. 1978
CMF SUPER-FILEX, 8 COL, 50' (1270 MM).
REVERSE PRINT. 1978
CMF SUPER-FILEX, 8 COL, 1050 MM, 1982. 1
MTR UWRW
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1888 (SHOWROOM MACHINE)
FILEXOTECHNICA, 8 COL, 11 4 COL, FRAME
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1250 MM OIA UW/RW, 1895
UTECO INLINE, 4 COL, 1250 MM WEB,
1880

1990 OMAC INCINE. 4 COL., 1600 MM WEB, 160 OMALFLEX 130, 8 COL., 1700 MM WEB, 1989 CARRARO KLEINA, 4 COL. 1050 MM WES

ROTOCRAVURE ANDREOTTI, & COL, 860 MM, AUTO SPLIC-ING, BOOMM, PACKAGING FILMS, 1970 HOLWEO, & COL, 810 MM, NON STOP UWIRW, PACKAGING FILMS ROTOMEC, 7 COL, 1000 MM, PACKAGING FILMS TECMO HELLO 308, B COL, 850 MM, 1975

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parent materials to stick together during automatic feeding. the Short Run The Cooper Flexopress Series II represents a new generation of sheet-fed flexo printers. Offering superb

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> restrictions. SEE U8 AT CORRUGATEO '94 ON STANO No. 2117

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Various slotting blade widths to suit 0.045-0.08 inch grades of solid fibreboard, all single wall and up to heavy duty 440 AA flute corrugated are available. If an Autobox slitter crease is added, a single wall corrugated can usually be run two up, making 700 boxes

Smooth and scratch resistant

Products' (ADP) Prikplak plas-Northampton NN3 1LA - tel: nics lines for use in point of sale and packaging applications. Prikplak lines is a transparent material, embossed with diagonal lines on one side, while the other side is smooth and glossy. The lines provide scratch

0604 495333, fax: 491909) says that the smooth surface is good for screen and foil blocking as it provides extra protection for the image if it is reverse printed

processes, says the company.

Prikplak lines are suitable for a number of converting

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Mansion Close, Moulton Park,

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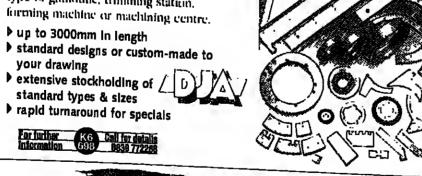
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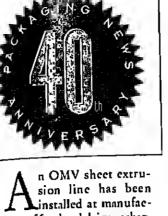
quar developed and produced by UK Hrm, Mirege inks, has obtained American FDA eccreditation for use in the printing of peckeging for dry end equeous food products.

PERKIN-ELMER LTO has inicaduced en eddition to ite tange of ICP-OES enectrometers - the Optime 3000 XL, facturing en axiel-view plesme for enhanced overell performence with lower detection limits and improved sample throughput Itel: 0494 679026).

A SURVEY of over 2000 Germen injection blow moolders showe that the Industry coneumed 1.4 million fennes of polymer meteriale in 1993. Daspite this, the Garman meret is suffering the most in Europe, according to the report published by Applied Merket Informetion Ltd (tel:

0272 249442). NATIONAL STARCH & Chemical has leunched en extension to the Kotlim range of high parformance surface elzing sterches for epeciality end coeted gredes - Kollim 250 and Kotilm 260 (tel: 061-236 9860).

VIKING PACKADING Ltd has nvestad eround £70,000 lp e Bu Pont Cyret 1001P platemak ing system. Viking seye it allows them to tocrease plate production by 12 per cent, to prodoce plates quicker end dhere ta incoming anytropmental legislation.



surer of food and dairy packag-

ing, Penlea Plasties allowing

the company to extrude its

expansion drive, Penlea is now considering further investment in OMV plant to satisfy demand for its bespoke polypropylene products. "We believe OMV's rurnkey packages, with extruder, thermoformer and all the associated equipment, offers exactly the production capability we

A low application temperature

hot melt adhesive - called

Cool-Melt - is now available to

converters and packers from

National Starch & Chemical.

Cool-Melt has already

the extruder and flat die.

and reduced maintenance and

equipment replacement costs.

Appreciable savings can be

achieved through the use of

Cool-Melt, says the company,

especially in maintenance and

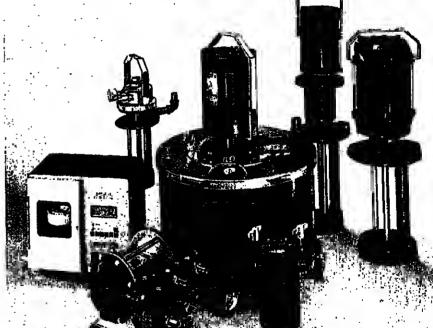
with nozzle blockage.

NEW for 1994 from JENTON INTERNATIONAL 🔾 AN - LINE VISCOSITY CONYADI. 🔘 Metalboxº U.V. CURING SYSTEM **OU.Y. LAMP MONITORS** ronment, reduced downtime

energy costs. It is said to dramatically reduce the cleaning requirements often associated

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Graymills



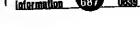
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DACH ACTOR NEWS/HINE 1994

Extracting waste from

shown by Danish Moldow

A/S. It incorporates a filter

which is based on a double

width SI filter with a jet con-

veyor in the base to handle any

volume of waste created by

The system can be com-

bined with a waste separator

and the company ensures posi-

tive removal of all waste from

any type of production

machine and the positive sepa-

ration of all waste and dust

from micumatic conveying sys-

tems using the combined filter

separator, according to

Moldow (Lejrvej 25, DK-3500

board production.

Over 400 companies will be exhibiting at the first event exclusively dedicated to the needs of the world's corrugated board and boxmaking industries - Cor-

rugated '94. At Paris Nord Villepinte from 20 to 25 June exhibitors from 27 countries will show products and technology for corrugated board manufacture and converting.

TOURRUGATED PREVIEW Starch attractions | Carton design and

Minocar and Coromat 2000, part of Cerestar's range of starch and starch derivative products for the corrugated industry, will be exhibited at the show. Coromat 2000 is designed

to prepare corrugating adhesives using the Minocar process. The equipment is contained in a 2.4 x 2.9 x 3.3 metre construction. Minocar enhances corrugated hoard production speeds, glue consumption, waste reduction, bonding and over resistance, according to Cerestar (Trafford Park Road, Trafford Park, Manchester M17 1PA - 1el: 061-872 5959, fax: 848 9034).

By controlling starch throughout the preparation of the adhesive and during all dosages of the ingredients, the process ensures that the finished adhesive is produced



Mino cer end Coromat 2000 from the Cereeter range

consistently to the required viscosity and solidity. It can also cope with the introduction of waste waters into the system. Hall: 1, Stand: 1411

of the package. Traditional delays imposed by the separation of the geometric and the graphic processes are climinated, claims Bareo and there is no need to wait for the completed die or plot of it before starting

"Special ink

the graphic part of the job.

Barco (50 Suttons Park Avenue, Reading Berks RG6 1AZ - tel: 0734 664611, fax: 665070) will also be displaying Ink Swiich, a product designed to overcome



the problems in high volum A Rippatape self-adhesive tear printing of certain colour me tipe for the easy opening of where special inks sets bases carrons and corrugated conhe used instead of standard tainers will be on show from CMYK ink processes, Supastrip International, a divi-

lution and one can use a fail

large dot without having s

move to a low resolution.

Hall: 2 Stand: 2428

Memet Screens, the compsion of P P Payne Ltd. my's stochastic screening tol-It features an aqueous nology is also being shown h adhesive developed to give betenables new application of ter tape adhesion and to reduce moiré free screening technolog environmental impact during in flexo. This screening system manufacture. has a wide variation of mean A further specification clot sizes for each exposed tea-

gives improved tear through

2000 SERIES AIRSHAFT

from 20mm diameter

Tear tape adheres better



CORRUGATED PREVIEW

The Rippotape sheet fed applicator system to apply lengths of tape to carton blanks while still in sheet form will also be exhibited, as will Supacut tear tape systems used for converting outers into merchandising trays.

Rigitape, a selective reinforcement tape for corrugated cartons to reinforce carrying handles on multipack collations will also be shown by P P Payne (Giltway, Giltbrook, Nottingham NG16 2GT - td: 0602 384800, fax: 384851). Hall: 2, Stand: 2210

Rinse disposal

Hot cylinder technique, from German Pafa GmbH, will be demonstrated. The system will dispose of any flexo rinsing water and starch rinse.

Pafa's UK agent is Engelmann and Buckham Machinery Ltd, Buckham House, Lenten Street, Alton, Hampshire GU34 1HH - tel: 0420 82421, fax: 89193.

Hall: 3, Stand: 3420

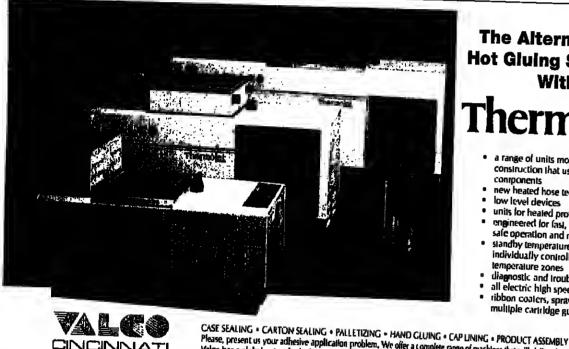


corrugated production An extraction and handling system for waste from corrugated production will be

"Ensures there is no pressure on the unit"

Fans incorporated in all Moldow systems will be shown, with the Moldow RP rotary air scal, which meters the waste from the filter/separator to the baler or compactor and ensures there is no pressurisation of the unit. Hall: 2, Stand: 2321

For further K6 Call for details



The Alternative — **Hot Gluing Solutions**

An integrated design and pro-

duction system for the packaging

industry is being demonstrated

by Barco Graphics Ltd, for

The DigiPack system pro-

rides the total layout of a car-

on, creating all its elements in

a single step operation to plate

ready film without any manual

operations such as mounting.

stripping or contacting. It does

not merge text with the

images, nor does it integrate

DigiPack integrates a geo-

metric cad subsystem for the

design of the geometric shape

inages with the text

is application on cartons.

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of mounting styles and associated electronics to

give simple installation

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onto any machine.

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Flexo printer offers low cost short runs

A Senes II Flexopress, a sheetfed flexo printing press from The Cooper Printing

on this model include electronic sheet detection coupled to automatic print cylinder throw-off, fine adjustment of print registration during printing, faster wash-ups and greater ease of use.



Equipment Company Ltd, which offers short runs at low prices, will be

fax: 768608) says the the press is ideal for sheet plants and box makers.

Hall: 2, Stand: 2117 For further K6 Call for detail

Box where artwork is applied, AG/CAD Ltd will be launchmised for fast cutting and creascolour proofs output and sepaing the AG/Kasemake corrurations generated. gated case design and sample AG/Kasemake making system, which with exchange geometry files with FEFCO library allows the fast re-sizing of any standard

Structural designs are passed to AG/Graphies Tool

EUROPEAN AGENTS

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all standard designs ble computers, it contains routines to create layouts quickly and easily. The geometry is opti-

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other packaging designs systems via the industry standard CF2 file exchange format, says AG/CAD (3 Asher Court,

ing. Stripping rules and rotary designs are also catered for. Samples can be cut and creased on the KN Sample Table.

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Trading Estate, Appleton, War-

rington, Cheshire WA4 4ST -

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tel: 0952 211222, fax: 211010).

Hall: 2, Stand: 2311



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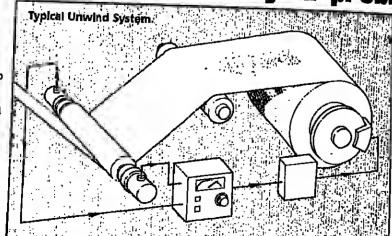
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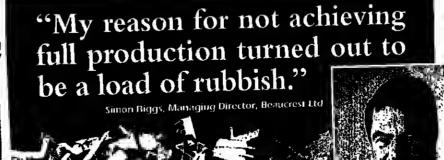


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We invite you to inspect the Viking Platens at: Corrugated '94







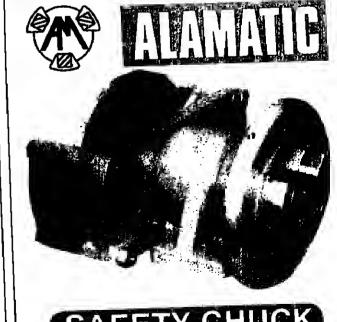
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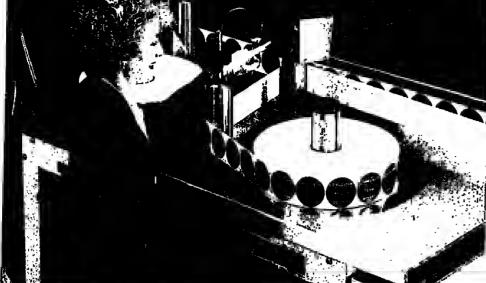
MARK ANDY

oped by Flexo Accessories for its Propheteer range of WEBTRON narrow web flexopresses to and many others. handle uv flexo inks approaching the viscosity of letterpress inks.

As a result, ink viscosity can be matched to the job or substrate, taking full advantage of uv flexo, says UK agent Oscar Friedheim.

Tidland, Serious Quality

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Counting and inspecting

An automatic counting system and strobe for print quality assessment is incorporated in a horizontal roll label rewinder introduced on the UK market by Sussex & Berkshire Machinery.

Made in the USA by Web Techniques, the WT-25LC!

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gravity, allows the Ultra taining an ink fountain, dual

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anilox roll.

071-928 9361).

Developments in ultraviolet curing for flexo and to control heat generation, are particularly epparent in label production and print.

LABEL MAGDUCTION

economic alternative to con- either to rewind a precise ventional upright slitternumber of labels, ensuring no

verifiers, OCR readets, oversystem is said to provide an rewinders and can be set print and unremoved matrix



give a reel total,

Good practice

Counting is via a photo-

electric scanner while a syn-

chromised strobe light, which

flashes as each label passes to

freeze the image, allows opin ters to assess point quality.

"In this way, quality control routines and a precise libel.

count can be provided paris

larly to pharmaceutical compnies who need to earry out !!

reconciliation of label numbers

to meet good manufacturing if

practice (GMP) demands in

medicines manufacture, says \$

& B (Blacknest, Alten, Hans

GU34 4PX - tel: 0420 22669,

equipment can be fitted to the

W1-251.C1, including barrole

Further quality control

fax: 0420 22687).

Power and heat control

Heat buildup on label subdoctor blades and a lightweight ctiring systems.

This, says the company, allows the use of high power lamps - up to 600W/in - able to handle a wide variation of ink film weights at optimum press speed. In particular, this applies to combination presses running different processes such as letterpress, sereen, and flexo in

a single pass, points on GEW (45 Decrings Road, Reigne, Surrey R112 OFW - tel: 0737 247028, (ax: 0737 247669). The GEW Lumps - available

from 40 nrm wide upwards -

complete and the system - said also incorporate a power selecto combine the quality of tion facility to match uv output gravure with the low cost of to press speeds. This can be flexo - is to go into production. manually operated or linked to the press to modulate power engraved in house for added output as speed rises or falls, so security and cost savings, and reducing the risk of unnecessary heat absorption at slow is aimed at short runs, particularly where minor copy weh speeds. changes are required, says Chesnut Engineering (18



strates - particularly plastics such as polypropylene - as a result of infra-red emission from uv lamps is controlled by an air cooling system devised by GEW for its range of uv

The eassettes ean be exchanged in less than three minutes, in order to allow all pre-inking and wash-up to be earried out off press, according to Osear Friedheim (250 Waterloo Road, London SEI 8RE - tel: 071-928 1363, fax:



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PACKAGING NEWS/JUNE 1994

CONVERTING

LABEL PRODUCTION Slimline uv lamp range

print units of existing letterpress and flexo label presses.

accept variable data such as

batch numbers and bar codes

overprinted by thermal trans-

fer, says Fasson (Eastman Way,

Hemel Hempstead, Herts HP2

7HE - tel: 0442 60211, fax:

and plasticiser free while a sol-

vent free aerylie permanent

.................

to image the cylinder.

White I odge Park Porushead.

Bristol BS20 9HH - tel: 0275 817240. fax: 0275 847736).

No chemicals are required

Chesnut Engineering ha

also recently launched two

label presses, the Series 300,

available in widths up to

800mm for short to medium

run work, and the Model 150S,

a 460mm version of the estab-

Both presses feature inter-

changeable print cartridges.

Swing out carriages allow mak-

cready to be carried out on non-

printing units, at the print station,

while the press is running.

lished Series 150 machine.

Face materials are chloride

0442 254453).

adhesive is used.

as standard, although higher powered versions are available Climline housings are Semployed for a range of uv euring lamps introfor special applications. Standard controls cut the uv power to 50 per cent when the press is duced by Superior Quartz stopped and close the shutters, Products, to allow installation although a stepless power conin the restricted area between

Extra stiffness

in pp labelstock

propylene labelling films

with added stiffness for run-

ning on high speed applica-

tors in the cosmeties and

rorletries market have been

Part of the Faskoll range,

the films come in a choice of

matt and gloss, transparent or

white and silver face materials,

with corona-treated and print

receptive coatings. All com-

monly used print processes can

cylinder

Customer trials with W R

Chesnut Engineering's plastics

print cylinder are now virtually

The eylinder can be

introduced by Fasson.

"This feature is particularly Air cooled, the lamps range useful when the press is run as in power from 80 to 160W/cm a slow speed or when temperature sensitive substrates are used," points out the company (Unit 12, The Business Centre, Colne Way, Watford, Heris WD2 4ND - tel: 0923 211366, fax: 0923 228610).

output to press running speed.

incorporate reflectors produced from heavy ducy aluminium extrusions, which are polished and then subjected to an anodising process that ensures the reflective surfaces maintain their optical proper-



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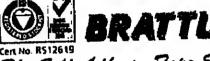
The comprehensive Brattle range of pressure-sensitive adhesive products includes several specialist items for filmic

Polypeel creates resealable closures for polythene and polypropylene bags, but for permanent bag closures there's Polyseal. Both have hot wire cuttable liners. Both are available ex stock. Like all Brattle products, they're quick and easy to apply, keeping downtime to a minimum. And of course, thete are none of the solvent or fune hazaids associated with wet glue systems. For specialist self-adhesive tapes from a single BS \$750 accredited

suppliet, you can always rely on Brattle. Sticky problem? Don't worry, we have over 50 years' experience of solving them. Just ask. Specialist tapes for rescalable or permanent seal filmic bags, film printing and graphics. 'Sellotape' high performance stereo plate mounting tapes for flexographic printing. Also adhesive foam pads,

cut shapes, give guns and adhesives. For product information of

Brattle Adhesive Materials Ltd M2, Cherrycourt Way, Stanbildge Road, Leighton Buzzard, 8edfordshira LU7 8UH. Tol: (0525) 382233 Fax: (0525) 851324



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lorneastle Lane, Dun Past, Reliable Service Lincoln LN2 JQP. I Walls Ave., Tel: 0522 S30557 CH1 4J8 Faa: 0522 730372 Calian cote P.L.C., Fax: 0244 319103 Unir II, Air Subble Converter Deptford Trading Estete, Blackhorse Road, Aerodrome Road London SE8.

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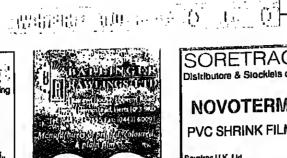
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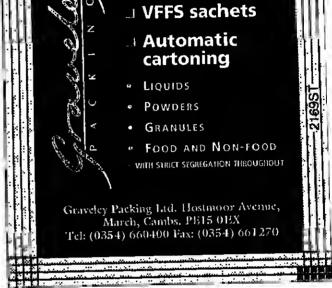




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